

# OCCUPATIONAL SURVEY REPORT, ELECTRONIC PRINCIPLES

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6 AIRBORNE METEOROLOGICAL/ATMOSPHERIC RESEARCH EQUIPMENT REPAIRMAN,

AFSC 30251 ,

AFPT 90-302-222 / /15 Sept 1977

OCCUPATIONAL SURVEY BRANCH
USAF OCCUPATIONAL MEASUREMENT CENTER
LACKLAND AFB TEXAS 78236

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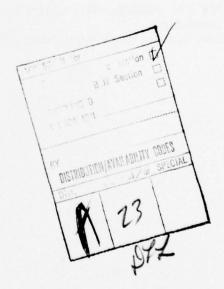
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#### PREFACE

This report presents a summary of the results of a detailed Air Force Electronic Principles Survey of the Airborne Meteorological/Atmospheric Research Equipment Repairman, AFSC 30251.

The Electronic Principles Inventory (EPI) was developed by Major Thomas J. O'Connor and Mr. Hendrick W. Ruck and the survey data were analyzed by Mr. Guy Cole. All are members of the Occupational Survey Branch, USAF Occupational Measurement Center, Lackland AFB, Texas.

Computer programs for analyzing the data were designed by Dr. Raymond E. Christal, Occupational and Manpower Research Division, Air Force Human Resources Laboratory (AFHRL), and were written by the Project Analysis and Programming Branch, Computational Sciences Division, AFHRL.

Distribution of this report is made upon request to the USAF Occupational Measurement Center, attention of the Chief, Occupational Survey Branch (OMY), Lackland AFB, Texas 78236.

This report has been reviewed and is approved.

JAMES A. TURNER, JR., Colonel, USAF Commander USAF Occupational Measurement Center WALTER E. DRISKILL, Ph.D. Chief, Occupational Survey Branch USAF Occupational Measurement Center

#### ELECTRONIC PRINCIPLES OCCUPATIONAL SURVEY REPORT AIRBORNE METEOROLOGICAL/ATMOSPHERIC RESEARCH EQUIPMENT REPAIRMAN AFSC 30251

#### INTRODUCTION

This report summarizes the results of the administration of the Electronic Principles Inventory to airmen assigned as Airborne Meteorological/Atmospheric Research Equipment Repairman (AFSC 30251). The data for this report were collected during the period April through June 1977.

This report describes: (1) development and administration of the survey instrument; and (2) electronic principles used by DAFSC 5-skill level personnel both CONUS and overseas and assigned to selected major commands.  $\Lambda$ 

DEVELOPMENT OF THE ELECTRONIC PRINCIPLES INVENTORY (EPI)

The EPI was developed by personnel from the Occupational Survey Branch who were well qualified in theoretical physics and electronics, as well as in task analysis and survey development. Over 300 maintenance personnel from SAC, TAC, ADC, MAC, and AFCS participated in the development of the inventory. Representing the five ATC training centers, electronics experts who averaged 12 years of maintenance experience and four years of electronic principles instruction experience spent several weeks refining the EPI. In addition, personnel at the Electrical Engineering Department of the USAF Academy and the Air Force Human Resources Laboratory were consulted during the development of the inventory.

The final version of the EPI used in this survey contained 1,257 items in 62 subject matter areas covering all electronic principles training given at the five ATC technical training centers. Table 1 lists the 62 subject areas.

#### ADMINISTRATION

The Electronic Principles Inventory was administered by mail to AFSC 30251 airmen worldwide. Responses from 10 individuals represented 40 percent of the total of all AFSC 30251 personnel. Table 2 shows the percentage distribution by major command of the survey incumbents.

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TABLE 1
EPI SUBJECT AREAS

SEQUENCE OF SUBJECT AREAS	SUBJECT AREA TITLE	BEGINNING ITEM NUMBER	GPSUM PAGE NUMBER
1	MATHEMATICS	Al	2
2	DIRECT CURRENT AND VOLTAGE	A15	2 2 2 3
3	RESISTANCE	A24	2
4	MULTIMETER USES	B52	3
5	ALTERNATING CURRENT	B61	4
6	INDUCTORS AND INDUCTIVE	B67	
	REACTANCE	50,	4
7	CAPACITORS AND CAPACITIVE	C92	
	REACTANCE		5
8	TRANSFORMERS	C128	6
9	MAGNETISM	C171	7
10	RCL CIRCUITS	D185	8
11	SERIES AND PARALLEL RESONANCE	D229	
	(TIME CONSTANTS)	0220	10
12	FILTERS	D239	10
13	COUPLING	E261	11
14	SOLDERING	E273	ii
15	RELAYS	E295	12
16	MICROPHONES	F314	12
17	SPEAKERS	F327	13
18	OSCILLOSCOPES	F342	13
19	SEMICONDUCTOR DIODES	G354	13
20	TRANSISTORS	G404	15
21	TRANSISTOR AMPLIFIERS	G428	16
22	SOLID-STATE SPECIAL PURPOSE		
22	DEVICES	H477	19
23 24	POWER SUPPLIES OSCILLATORS	H483 H512	19 19
25	MULTIVIBRATORS	1539	20
26	LIMITERS AND CLAMPERS	1555	21
27	ELECTRON TUBES	1565	21
28	ELECTRON TUBE AMPLIFIERS AND CIRCUITS	J609	22
29	SPECIAL PURPOSE ELECTRON	J616	
	TUBES	1600	23
30	HETERODYNING, MODULATION, AND DEMODULATION	J632	23
31	AM SYSTEMS	K638	23
32	FM SYSTEMS	K666	24

## TABLE 1 (CONTINUED)

## EPI SUBJECT AREAS

SEQUENCE OF SUBJECT AREAS	SUBJECT AREA TITLE	BEGINNING ITEM NUMBER	GPSUM PAGE NUMBER
33	NUMBERING SYSTEMS	K685	25
34		L695	25
35	LOGIC FUNCTIONS BOOLEAN EQUATIONS COUNTERS	L708	26
36	COUNTERS	L733	27
37	TIMING CIRCUITS	M757	27
38	USE OF SIGNAL GENERATORS	M769	28
39	MOTORS AND GENERATORS	M779	28
40	METER MOVEMENTS	N808	29
41	SATURABLE REACTORS AND	N818	
	MAGNETIC AMPLIFIERS		29
42	WAVESHAPING CIRCUITS	N834	30
43	SINGLE SIDEBAND SYSTEMS	0845	30
44	PULSE MODULATION SYSTEMS	0875	31
45	ANTENNAS	0914	32
46	TRANSMISSION LINES	P953	34
47	WAVEGUIDES AND CAVITY	P984	
	RESONATORS		35
48	MICROWAVE AMPLIFIERS AND	P1034	
	OSCILLATORS		37
49	REGISTERS	Q1110	39
50	STORAGE DEVICES	Q1117	40
51	DIGITAL TO ANALOG CONVERTERS	Q1126	40
52	PHANTASTRONS	Q1140	41
53	PHANTASTRONS SCHMITT TRIGGERS CABLE FABRICATION	R1141	41
54	CABLE FABRICATION	R1144	41
55	INPUT/OUTPUT DEVICES	S1146	41
56	PHOTO SENSITIVE DEVICES	S1149	41
57	SYNCHRONOUS VIBRATIONS (CHOPPER CIRCUITS)	\$1150	41
58	INFRARED	T1159	41
59	LASERS	T1186	42
60	DISPLAY TUBES	T1220	43
61	PROGRAMMING	U1234	43
62	DB AND POWER RATIOS	U1255	44

TABLE 2

COMMAND REPRESENTATION OF SURVEY SAMPLE

	30	251
COMMAND	PERCENT ASSIGNED	PERCENT OF SAMPLE
MAC	60	20
ATC	24	10
AFSC	12	60
OTHER	4	10
TOTAL	100	100

Total Assigned - 25 Total Sampled - 10 Percent Sampled 40%

#### PRESENTATON OF RESULTS

Personnel responded "yes" or "no" to the 1,257 electronic principles questions as related to their present job. A Group Summary (GPSUM) computer printout is provided in the Appendix portion of this report. Page 1 of the GPSUM lists the five selected groups identified for this report. Pages 2-44 show the percentage of the incumbents responding to the EPI items. The computer program results display the percent members answering "yes" to the subject area questions. The reader can locate a specific subject area by referring to the Appendix page number as listed in Table 1. For example, the Transformers area results are given on page 6 of the GPSUM. The percentage of survey respondents indicating use of specific electronic principles ranged from high in areas such as Resistance (pp. 3-4) and Soldering (p. 12) to low in areas such as Saturable Reactors and Magnetic Amplifiers (pp. 29-30) and Single Sideband Sideband Systems (pp. 30-31). Additional AFSC 302X1 data can be obtained upon request to the Chief, Occupational Survey Branch (OMY).

APPENDIX

THE MENS HESPONDING TYEST BY SELECTED GAPS

SPSUME PAGE

TARRESTION OF ELECTIONIC PRINCIPLES UTILIZATION LATA FOR SELECTED GROPS IN THE BUZZI CAREEN FIELD.

MEMORIS ON THE FOLLOWING GROUPS NEWE REQUESTED

2.5	30251	ATHREN DAFSC 30251	ALL AIRMEN DAFSC 30251	ALL AIMMEN DAFSC 30251	ATHMEN DAFSC 30251
SI STATIONED	30251	ATHREN DAFSC 30251	ATHREN DAFSC 30251	ALL ATPREN DAFSC 30251	SPCUZB ALL ATPREN DAFSC 30251
5 1 A	30251	AIRMEN DAFSC 30251	AIRMEN DAFSC 30251	ALL AIRMEN DAFSC 30251	SPECIZY ALL AIRMEN DAFSE 30251
SI ASSIGNED TO AFSC.	30251	AIRMEN DAFSC 30251	AIRMEN DAFSC 30251	ALL AIRMEN DAFSC 30251	SPCOJI ALL AIRMEN DAFSC 30251

DIRECT CURRENT AND VOLTAGE MATHEMATICS RESISTANCE SPC 500 200000 100 6.7 GPSUME PAGE 5 PC 0001 00000000 000000 100 0 00 0000 000 00 1 30 100 000 0000 100 5 P C 2000 0000 100 100 100 001 00 1 000 100 500 75 -0.0 3.5 100 2222 00 5 PC 100 90 10 00000 0000 00 00 A3-US DO YOU USE OF HEFER TO RESISTOR SYMBOLS SUCH AS FIXED RESISTOR SYMBOLS. ON HAINTENANCE HANDALS, IN WHICH IT IS NECESSARY FOR YOU TO HULTIPLY UR DIVIDE BY A POWER OF 10 BEFORE YOU CAN APPLY THE INFORMATION FROM THE PUBLICATION IN A USEFUL WAY UN THE JOB. POTENTIOMETER.

A3-10 DO YOU USE RESISTOR COLOR CODES WHICH IMUICATE OHNIC
VALUE OF PESISTANCE. A1-D1 IN YOUR PAESENT JOH: DO YOU USE INSTRUMENTS: SUCH AS METERS OR USCILLOSCOPES, IN WHICH IT IS NECESSARY TO AMPLIFY OR ATTENUATE VOLTAGE, MESISTANCE, ETC., BY POMERS A 3-01 DO YOU MORK WITH RESISTONS IN YOUR PRESENT JOB.
A 3-02 DO YOU INSPECT RESISTONS.
A 3-03 DO YOU CLEAN RESISTONS.
A 3-05 DO YOU ADJUST RESISTONS.
A 3-05 DO YOU CHECK CHILL OR RESISTONS.
A 3-05 DO YOU REMOVE OR REPLACE RESISTONS.
A 3-07 DO YOU REMOVE OR REPLACE RESISTONS.
A 3-07 DO YOU USE ON REPLACE RESISTONS. AI-UZ DO YOU USE PUBLICATIONS, SUCH AS A TECHNICAL ORDERS A3-09 DO TOU TUENTIFT OR CLASSIFT THE REDISTORS YOU NOWN WITH AS CAMBON, FIXED WIRE, SLIDE TAP, AMEGSTAT, ON AI-03 DO TOU REARRANCE AND SOLVE FORMULAS OF EQUATIONS.
AI-04 DO TOU CALCULATE THE SQUARE ROOT OF A QUANTITY.
AI-05 DO TOU SOLVE FOR UNKNOWN QUANTITIES.
AI-05 DO TOU CONVERT NUMBERS TO LOGARITHMS.
CALCULATIONS. AILUS DO TOU SOLVE QUADRATIC EQUATIONS.

AILUS DO TOU USE THE NATURAL SYSTEM OF LOGARITHMS.

AILUS DO TOU USE THE NATURAL SYSTEM OF LOGARITHMS.

AILUS DO TOU PERFORM CALCULATIONS UN VECTOR QUANTITIES.

AILUS DO TOU MORK WITH TRIGONOMETRIC FUNCTIONS SUCH AS SINE; COSINE, OR TANGENT AREAS

AILUS DO TOU DETERMINE AREAS OF PLANE FIGURES.

AILUS DO TOU SOLVE ON USE SIMULTAMEDUS EQUATIONS.

AILUS DO TOU SOLVE ON USE SIMULTAMEDUS. TERM ELECTROMOTIVE FORCE LENFI. RESISTORS ON ANY TASKS YOU PERFORM. PCT MINS RESPONDING . TES. BY SELECTED GHPS TERM DINE.
TERM DINE.
TERM AMPERE. TERM COULUMB. TERH PROTUN TERH UHH. DY-TSA TASK GROUP SURMANT PERCENT MEMBERS PERFORMING 11111 1 11 5 ī H 700 USE 700 USE 700 USE 350 USE USE U5E 100 100 200 100 0000000000 A 2-09 A2-04 A 2-05 42-03 A2-02 D . D = 33 277 37

																								MULTIMETER USES			
•		5 PC	001	1.1	100	100	100	001	001	83	100	83	001	100	8 3	100	8 3	100	100	8 3	100	0	001	0 0	100	100	001
P A 61		200	001	0	001	100	0	0	100	001	0	0	100	o	001	0	o	0	0	001	100	0	001	0 0			1
ZHOSan		5PC 028	100	100	001	100	90	20	9.0	20	5.0	20	2.0	20	20	0	0	100	0	100	100	0	001	0 0	100	001	100
,		500	001	<b>5</b> 2	001	001	90	8	100	<b>6</b> 0	80	7.5	001	10	60	60	15	æ	œ	<b>9</b>	100	000	001	0 0	100	001	100
		200	100	•	100	100	0.8	0.80	0.	0.80	90	70	06	0.8	90	10	0.9	06	10	0	100	0	001	0 0	100	100	001
PEL HENS RESPONDING TEST BY SELECTED GAPS	TASK GHOUP SUMMATY PERCENT NEMBERS PLAFORMING	0Y-15A	A 34 A3-11 DO YOU USE RESISTOR COLOR CODES AHICH INDICATE	A 35 A3-12 DOUGE RESISTOR COLOA CODES AHICH INDICATE	A 35 A 3-13 DE TACH MAKE DECISIONS IN MHICH YOU MUST DETERMINE HOM TWO ON MORE BATTERIES MUST BE CONNECTED TOGETHEM TO	TO THE SCHEMATIC SYMBOLS	A 38 ANTS DO YOU CALCULATE TOTAL RESISTANCE FOR SENIES	RESISTIVE CINCUITS.  A 39 A3-16 DO TOU CALCULATE TOTAL CURRENT FOR SERIES RESISTIVE	A 40 A317 DO TOU CALCULATE INDIVIDUAL VOLTAGE DROPS FOR SEMIES	A 41 A3-18 DO TOU CALCULATE POWER DISSIPATION FOR SERIES	A 12 43-19 30 TOU CALCULATE TOTAL RESISTANCE FON SEMIES PARALLEL	MESISTIVE CINCUITS. A 43 A3-20 DO YOU CALCULATE TOTAL CURRENT FOR SEMIES PARALLEL	A 44 A3-21 DO YOU CALCULATE INDIVIDUAL VOLTAGE DROPS FOR SERIES	45, 43-22 DO YOU CALCULATE INDIVIDUAL BRANCH CURRENTS FOR	TE PON	A 47 A324 A0 YOU CALCULATE TOTAL MESISTANCE FOR MAMALLEL	4 48 43-25 DO TOU CALCULATE TOTAL CURRENT FOR PANALLEL MESISTIVE	A 49 A3-26 DO YOU CALCULATE INDIVIDUAL VOLTAGE OFOPS FOR	A SO A3-47 DO YOU CALCULATE INDIVIDUAL HRANCH CURRENTS FOR	A 51 A3-28 OF TOU CALCULATE PUWER DISSIPATION FOR PARALLEL RESISTIVE CIRCUITS.	52 81-01 00 100 HEASURE RESIS	53 BI-02 00 TOURS	AT 100 90 50 30 50 50 50 50 50 50 50 50 50 50 50 50 50	00 50-14	ST 81-06 DO TOU HEASURE CURKE		67 BI-09 DO YOU READ SCHEMATICS.

PCT MARS HESPONDING TYEST BY SELECTED GRPS.

GPSUMZ PAGE

TASK GROUP SUMMANY PERCENT MEMBERS PERFORMING

		ALTERNATING CURRENT							INDUCTORS AND INDUCTIVE REACTANG																										
5PC 031	83	001	93	100	0	33	20	37	20	20	20	20	2	ם כ	0 =	0 0	,		0		0	0		0	0	c		0	0		0	0	1.1	2.0	20
SPC 029	100	100	00	100	100	001	001	100	100	100	100	001	000	<b>o</b> c	0 0	0 0	,		5		0	0		100	0	G		0	0		0	100	100	100	007
5 P C 0 2 8	100	001	0001	100	100	0	0	0	0	0	0	0	2 0	0 0	0 0	0 0	)		0		0	0		9	0	3		0	0		0	0	0	0	0
SPC 027	88	100		-	13	80	•	20					96	2	: -		)		0		С	D		-	0	c		0	0		0	-	3.8	63	6
5 PC	0	100	006	100	30	0,	2	3	20	8.0	20	20	0 <b>f</b>	2 -			:		0		0	0		1.0	0	•		0	O		0	0.1	30	20	20
07-75x	182-01 DO YOU USE OR REFER TO THE TERM EFFECTIVE VOLTAGE	BZ-02 DO YOU USE ON REFER TO THE TERM	84-04 00	82-US DO TOU USE OR REFER TO THE TERM	82-U6 DO YOU USE OR REFER TO THE	LAJ-01 DO TOU MORK MITH INDUCTORS OR CIRCUITS CONTAIN	#3-02 po for inspect inductors.	43-U3 U0 YOU	B3-U4 DO YOU ADJUST INDUCT	H3-05 NO YOU REHOVE OR HEP	83-06 DO TOU USE ON MEFER TO	83-07 DO TOU USE OR REFER TO	100 00 00 00	3-10 00 TOURS OF SERVICE OF SERVI	01 -11 00 YOU USE OR HEEF TO	43-12 DO YOU USE OR REFER TO	INDUCTANCE IS PROPORTIONA	TURNS OF THE COIL.	DUCTANCE OF A COLL IS OFFICE OF STORY TOWARD TO THE CHOSE	• 32	114	83-15 DO TOU USE ON REFER TO THE GENERAL RULE THAT THE	P. REBELLIT OF THE CORE MATERIAL.	83-16 DO YOU CALCULATE IND	USING FORMULAS.	3-18 00	IN PARALLEL.	THE SERIES PARTIES CIRCULATE TOTAL INDUCTANCE FOR INDUCTORS	3-20 DO YOU USE ON MEFER	LAGS VOLTAGE IN AC INDUCTOR CINC	STATE OF THE CALCULATE INDUCTIVE MEACTANCE.	INDUCTIVE MEACTANCE IS DIRECTLY PROPORTIONAL TO FREQUENCY.	H3-23 DO TOU MORK WITH POWER INDUCTORS.	63-24 DO TOU -OPK -17H AUDIO	43-63 00
	•	62	0 0	65	90	9	0	0	10	7.1	12	2	,	14	11	7.8		;			E	F		83	æ	æ	0	0	*		00 3	c	8 9	6	-

PERCENT HEMBENS PERFORMING

		CAPACITORS AND CAPACITIVE REACTANCE																													
5 60	9	100			001				100		6.	-		200	•		~		,	0	0		0	33	33	1.7	1.7		33	1.1	-
5 P.C 0 2 9	100			001	000			0	100		100							C	2	100	0		0	2	3	0	2		0	100	100
2 2 8	100	100	s		0 9	-		0	100		10	100			0 0		100		3	0	0		0	0	0	0	50		20	٥	0
5PC 027	8	100	89	9	000		39	0	100		88	100		6.3		0 0	100		0	52	0		0	38	38	25	-		52	25	25
5 PC	06	100	90	05	0	2	30	0	001		06	100		20	000	000	100		0	7.0	0		0	30	30	20	20		30	20	7.0
x21-Y0	C 92 CI-01 DO YOU HURK HITH CAPACITORS OR CAPACITIS CONTAINING	C 43 CI-02 DO YOU INSPECT CAPACITURS.	61-63	C1-04 00 40-10	96 61-05 00 400	THE STATE OF THE STATE OF STAT	00 to 10	100. C1-09 DO TOU USE ON HEFER TO ONBI	A DIELECTRIC.	PICOFARADS.	102 CI-11 00 YOU USE ON REFER TO	C 104 CI-12 DO 100 USE ON MEFEN TO DIELECTRIC CONSIANI	CAPACITORS	C1-14 00 YOU	40.	700 00 21-13 701	CI-IN DO YOU WORK WITH CAPACITORS IN	AND AC	CIRCLITY DO TOU MORK WITH CAPACITURES IN DON'T PETERBEN MAICH	C 111 CI-20 00 YOU CALCULATE CAPACITANCE FOR PARTICULAR		CAPACITANCE OF A CAPACITON IS DIRECILY PROPORTIONAL TO THE	C 113 CI-22 DO TOU USE OR REFER TO THE GENERAL PULF THAT CAPACITANCE UF A CAPACITOR IS INVERSELY PROPONTIONAL TO	THE DIELECTRIC THICKNESS C 114 CAPACITANCE OF CAPACITORS	IN SERIES C 115 C1-24 DO TOU CALCULATE THE TOTAL CAPACITANCE OF CAPACITORS		IN SERIES-PARALLEL CIRCUITS  117 (1-26 DO YOU USE ON MEFER TO THE GENERAL RULE THAT CURRENT	DUES HOT FLUM THROUGH CAPACITORS. IT ONLY APPEARS	C ITH C1-27 DO YOU USE OR REFER TO THE GENERAL RULE THAT CURRENT LEADS VOLTAGE IN ACCAPACITOR CIRCUITS		C 120 C1-29 DO TOU CALCULATE CAPACITIVE REACTANCE

MET HENS RESPONDING TYEST BY SELECTED GRPS

SPSUME PAGE

TASK GROUP SUMMANY

										TRANCEODMEDS	CASIST ON TENS																								
950	50	100	100	100	100	0	83	100	100	33	100	000	,	7	0	0		9	0		0	;	100	50	-	2	100	100		2	33		2	100	
SPC 029	000	100	100	001	100	0	100	00	0	100	001	001	,	0	0	0 0		0	0		0	c	000	100	001	0	100	100		2	0		100	100	
200	200	20	20	20	001	20	100	100	100	100	100	000	,	0	c	0		0	0		0		001	20	100	0	100	100		2	100		001	100	
SPC 027	33	100	100	100	001	0	75	9	75	38	8 9		,	0	c	0		0	0		0	36	9 00	20	52	0	80	10		2	52		38	60	
0.20	00	06	06	06	100	01	80	06	90	05	06	2 =	,	0		0		0	0		0	30		20	0,	0	90	•	4	0	0		20	0.6	
07-75K	121 C1-30 DO YOU WORK WITH HOTOR-STATOM (VARIABLE) CAPACITURS 122 C1-31 DO YOU WORK WITH COMPRESSION (TRIMER) CAPACITORS	123 C1-32 DO YOU WORK #17H	124 C1-33 DO TOU WORK PITH	CI-34 00 100 MORR WITH MICA (F)	124 CI-35 DO 100 #08K #17H		174 62-01 50	124 C2-U2 DU TOU INSPECT TRANSFORMERS	130 (2-03 00 760	C2-04 00 100	132 (2-05 00 700	C 134 CA-US DO 100 AERONE ON METLACE CONTINUE TAXASTONNERS	THE PRIMANT MINDING	C 135 CZ-UR DO TOU MAKE A DISTINCTIO. BETWEEN MUTUAL INDUCTION		YOU REFER TO OR USE THE COEFFICIENT OF COL	MHEN WORKING WITH THANSFORMERS	C 134 C4-11 DO TOU CALCULATE TURNS RATIOS FOR TRANSFORMERS USING	C 139 C2-12 DO YOU HEFEN TO MEFLECTE! IMPEDANCE HALM MONKING MITH	THANSFORM	C 140 CZ-13 DO TOU CALCULATE IMPEDANCE INTERACTIONS FOR	Selection to the selection of the select	142 C2-15 DO TOU MORE MITH POWER	143 CZ-16 DU TOU "ORE "1TH	C2-17 DO TOU HORK MITH RADIO FIEGUENCY THANSFORM	145 c2-16 00 You - BAK		MEASURING RESISTANCE	MEASURING MESISTANCE	MEASURING DUTPUT VOLTAGES	OU HEASURF RESISTANCE OF THANSFORMER	STEP-DOWN TURKS PATTO	0	S RATIO OU REFER TO BASIC THANSFORMER SCHEMA	FANS

PCT MARS RESPONDING TEST STELLIES GRPS

CPSUMZ PAGE 7

TASK GROUP SUMMANY PERCENT MEMBERS PERFORMING

SPC SPC 029 031	100 83	100 M3	100 63	100 33	100 001	05 001	££ 001	100 17	7 0	05 001	0 0	0 0	100					100 33	0	03			D D MAGNETISM		0	0	0 17	0
5 P C 0 2 8	100	100	100	2.0	20	100	100	0	0	a	0	0	001	00	100	100	100	001	0	00	90	0	0		0	0	0	0
SPC 027	75	15	75	88	6.3	50	96	25	0	9.0	0	0	38	9.0	-	0	38	T T	0	4		0	0		0	0	=	C
5 PC	9	90	90	•	0.9	0.9	20	50	0	40	0	0	20	4	30	20	20	50	0	1	9 -		O		0	0	2	0
	INGS SCHEMATIC	THROLS FOR	BOLS FOR	.S FOR	ILS FOR	SCHEMATIC	USING	CORE IN	AT THE	N RAT105	DRMERS	ORMERS	TH THREE		NSFORMERS			456	FORMER			E71C	716		6NETIC		FORCE OR	MAGNETISM
DY-15K	VEFER TO HULTIPLE SECONDARY-WIND	REFER TO MULTIPLE TAP SCHEMATIC S	PEFER TO CENTER TAP SCHEMATIC SYM	REFER TO AIR CORE SCHEMATIC STMBOL	PEFER TO THON CORE SCHEHATIC STHEO	TEFER TO COMBINATIONS OF THE ABOVE	DETERMINE PHASE RELATIONSHIPS BETAIN PRIMARY VOLTAGES OF THANSFORMERS	SETERAINE OR MEFER TO THE TYPE OF	REFER TO OR USE THE GENERAL RULE THE	DE A TRANSFORMER IS ENUAL TO THE VO	FERSTALLATE VOLTAGE RATIOS FOR TRANSF	PATIOS CALCULATE CURMENT RATIOS FOR TRANSF	ATTOS	DAMERS	CLEAN OF LUBMICATE THREE PHASE TRAI	IDJUST THREE PHASE TRANSFORMERS	ROUBLESHOOT THREE PHASE TRANSFORME	REMOVE OR REPLACE COMPLETE THREE PH	REMOVE OR REPLACE THREE PHASE TRANSFORMER	S AINDINGS	2 0	OH MEFER TO	DITEMBER TO RELUCTANCE OF HERETIC		USE OF MEFER TO PERMEABILITY OF MAGNETIC	OR REFER TO RESIDUAL	JSE OR REFER TO MAGNETIC LINES OF FORCE	ISE OR MEFER TO WEBER'S THEORY OF MAGNETISM
DY-15x	- "	TOU REFER TO MULTIPLE TAP SCHEMATIC STHROLS FOR	NATION REFER TO CENTER TAP SCHEMATIC STMBOLS FOR	TOUR REFER TO AIR CORE SCHEMATIC STMBOL	MACENS.			TOU DETERMINE OR MEREN TO THE TYPE OF (		TOU USE OR REFER TO STEP-UP OR STEP-DOWN RATIOS	NOW CALCULATE VOLTAGE RATIOS FOR TRANSF	URNS HATIOS 1 YOU CALCULATE CURHENT RATIOS FOR TRANSF	URNS HATIOS IES YOUR JOH INVOLVE ANY TASKS DEALING WI	IRANSFORMERS	-	-	-	) TOU KEMOVE ON REPLACE COMPLETE IMMEE PMASE	YOU MEHOVE	CH AS AIND	TOU USE OR REFER TO	YOU USE OH	fou usr on	5	100 USE OF	OU USE ON REFER TO RESIDUAL	TOU USE OR REFER TO MAGNETIC	JSP no.
DV-15R	00		AANSTONNENS 127 JULY TOU REFER TO CENTER TAP SCHEMATIC STM	THE SCHEMATIC SYMBOL	-27 CHEMATIC STMBO			TEACHER STREETS OF MEFER TO THE TYPE OF (			THE NEW CALCULATE VOLTAGE RATIOS FOR TRANSF	SING TURNS MATIOS -36 DO YOU CALCULATE CURNENT MATIOS FOR TRANSF	SING TURNS MATIOS -37 DOES YOUR JOH INVOLVE ANY TASKS DEALING WI	TASE TRANSFORMERS	-	-	-	THE DO TOU REMOVE OR REPLACE COMPLETE INKEE PROPERTY OF THE PR	YOU MEHOVE	CH AS AIND	DO TOU USE ON REFER TO	00 YOU USE ON	fou usr on	5	100 USE OF	DO YOU USE ON REFER TO RESIDUAL	DO YOU USE OR REFER TO MAGNETIC	350 00 00
DV=15x	200	153 C2-26 DO YOU REFER TO MULTIPLE TAP SCHEMATIC S	154 CE-27 DO VOU MEFER TO CENTER TAP SCHEMATIC STM	155 CA-28 DO TOU REFER TO AIR CORE SCHEMATIC STABOLS FOR	156 (2-79 DO PEFER TO THON CORE SCHEMATIC STABOLS FOR	157 (2-30 to 700 METER TO COMBINATIONS OF THE ABOVE	, ,	THE OR MEFER TO THE TYPE OF	160 CZ-33 DO TOU REFER TO OR USE THE GENERAL RULE TO	TORNS MAILO OF A TRANSFORMER IS EQUAL TO THE VO	FOR THANSFORMENS	163 (2-36 DO TOU CALCULATE CURNENT RATIOS FOR TRANSFORMERS	USING TURNS HATTOS 164 (2-37 DOES YOUR JOH INVOLVE ANY TASKS DEALING WITH THREE	PHASE TRANSFORMERS	62-39 00 1	-	C2-41 00 1	169 CE-12 DO TOU REMOVE OR REPLACE COMPLETE THREE PR	170 C2-43 DO YOU REHOVE OR REPLACE THREE PHASE TRANS	NON	C3-02 00 700 USF OR REFER TO	(3-03 00 You USE OH	8	MATERIALS	40 350 no	DO YOU USE ON REFER TO RESIDUAL	TOU USE OR REFER TO MAGNETIC	350 004 00

PCT HAMS RESPONDING TEST BY SELECTED GRPS

GPSUMZ PAGE

TASK WHOUP SUMMANY PERCENT MEMBERS PERFORMING

													RCL CIRCUITS																								
	5 P.C	0	-	0	1.1		11		0	1	ò	1.1	0		0	o	,	0	33		73	33	:	13	0		11	33	:	:	33	33		13	33		:
	560	0	0	0	100		0		0	00.	20	0	0		0	0		0	100		001	00		001	001		0	001	100		001	001		007	001	001	3
	5 P.C	0	0	0	100		20		20	00.		0	0		0	0	,	0	0		0	20		000	0		0	0	0	•	0	0		0	0	0	,
	250	0	-	0	52		:		0	1	•	-	C	,	0	0	,	0	38		96	34		57	13		13	34	**		38	38		52	38	25	:
	200	0	01	c	0 *		90		10	1	0	10		,	0	9		0	30		30	0.		0.	10		10	30	0.		30	30		50	30	30	?
TERCTAL MENDERS TERFORMING	0Y-15K	C3-09 00 TOU USE OR REFER	180 C3-10 00 100 05E 08 MEFER 10	181 C3-11 DO 100 USE OR REFER TO FLUX DENSITY	C 182 C3-12 DO YOU USE OR REFER TO THE GENERAL RULE THAT FOR	MAGNETIC POLES, LIKE POLES REPEL AND UNLIKE POLES ATTRACT	ISE THE LEFT HAND THUMB RULE TO	DIRECTION OF MAGNETIC FIELDS ABOUT STRAIGHT WIRES	C 184 C3-14 DC TOU USE THE LEFT HAND THUMB RULE TO FIND THE NORTH	PULE OF A CURRENT CARRYING COIL	Principle of the state of the s	D 186 DI-02 DO YOU USE OR REFER TO VICTORS WHEN MORKING MITH ACL	CIRCUITS CIRCUITS CIRCUITS CIRCUITS CIRCUITS CIRCUITS	MORKING WITH RCL CINCUITS	I 188 UL-O" DO YOU USE ON REFER TO SINE WHEN WORKING WITH RCL	CIRCUITS  DIME DIMES DO YOU USE OF REFER TO COSINE WHEN WORKING WITH MCL	CIRCUITS	CHARLES DO TOU USE ON MEREN TO TANGENT WHEN MORKING MITH MCL	D 191 DI-07 DO YOU USE OR REFER TO MATTS WHEN MORKING WITH RCL	CIRCUITS	U 192 DI TUR DO TOU USE OF HEFER TO THUE PONER (PT) MAEN MONKING	THE CITY OF THE CONTRACT OF MAXIMUM PORTR (PM.) WHEN		THE DISTO DO SON OF REFER TO AVERAGE PORER (PAVE) WHEN	195 91-11 DO TOU USE OR MERER TO APPARENT POMER (PA) MAEN	MUNKING WITH ACL CINCUITS	I 146 DI-12 DO YOU USE ON PEFEN TO PUNER FACTOR 1PF I BMEN BORKING	L 197 DI-13 DO TOU USE OR PEFER TO RESONANT CIRCUITS WHEN	FOR SITE SO TOU USE OF PERENT TO HERMHOLD MINES BORRING MITH	ACL CIRCUITS	U 199 G1-15 DO YOU USE OR MEFER TO SILECTIVITY WHEN MORKING AITH	2 200 01-16 DO TOU USE OF REFER TO RESONANT FREQUENCY BAREN	MORKING WITH RCL CINCUITS	U ZUI UI-17 DO TOU USE OF HEFER TO HALL FORER POINTS WHEN	U 402 DI-14 DO YOU USE ON MEREN TO BANDPASS REGION MEN MORKING	AND THE WOLL CLINCOLTS  AND THE WOLLD'S DRIVERS TO CIRCUIT DIMES ADMINED WITH	ACL CIRCUITS

TESK GROUP SUMMANY FERCENT NEMBERS PENFORMING

5PC 5PC 5PC 5PC 5PC 026 027 031	30 38 0 100 33	10 13 0 0 17	10 13 0 0 17	10 13 0 0 17	0 0	0 0 0	0 0 0	0 0 0 0	0 0 0	0 0 0 0	10 13 0 0 17	0 0 0	0 0 0 0	10 0 0 11	00 03 20 100 04	0 0 05	20 25 0 0 33		0 001 0 11 01	0 001 0 11 01	0 0 0		30 25 50 100 17	0 001 0 11 01	0 001 0 11 01	
OY-15k	2 204 01-20 DO YOU USE OR REFER TO TANK CIRCUITS WHEN WORKING	U 205 01-21 DO YOU DETERMINE VALUES OF THIGGNOMETHIC FUNCTIONS	D 404 DI-42 DO YOU DHAW VOLTAGE: CURRENT: OR IMPEDANCE VECTOR	DIAGRAMS FOR CIRCUITS U- 207 UI-23 DO YOU CALCULATE TOTAL IMPEDANCE FOR CAPACITIVE	CIRCUITS CIRCUITS ANGLES RETWEEN IMPEDANCE AND	RESISTANCE IN CAPACITIVE CINCUITS DE SON SERIES RCL	CIRCUITS  CIRCUITS  O VIT 31-26 DO YOU CALCULATE IMPEDANCE ANGLES FON SENIES RCL	CIRCUITS  1 211 D1-27 DO YOU CALCULATE APPARENT POWER (PA) FOR SERIES HCL	S /12 B1-48 DO YOU CALCULATE THUL POWER (PT) FOR SERIES RCL	U 413 DI-22 DO TOU CALCULATE PONER FACTONS (PF) FOR SERIES RCL	CINCUITS OF YOU CALCULATE TOTAL CURRENT FOR PARALLEL HCL	U 215 DI-31 DO YOU CALCULATE IMPEDANCE ANGLES FOR PARALLEL RCL	DISTANCE TO THE CALCULATE TOTAL THEBDANCE FOR PARALLEL RCL	D 217 01-33 DO TOU CALCULATE TOTAL IMPEDANCE FOR PARALLEL RCL	414 01-34 DO YOU	00 100	741 01-17 00	U 222 DI-34 DO TOU USE ON HEFER TO THE GENERAL RULE THAT	000	CINCUITS U. 424 DITTO DE OUT NEFER TO THE GENERAL RULE INAT IMPREANCE IS MINITHD AND CURRENT MAXIMUM AT THE RESONANT	FAESUENCY FOR SERIES RCL CIRCUITS	CURPENT IS MINIMUM AND IMPEDANCE MAXIMUM AT RESONANT FREGUENCY FOR PARALLEL RCL CIRCUITS	DIRECT POINTS ARE AT 2017 PERCENT OF THE GENERAL RULE THAT HALF	RULE	D 228 LI-44 DO TOU DETERHINE HOW CHANGES IN FREQUENCY, RESISTANCE	APPLES FOR MCL CIRCUITS

TENE GACOUP SOUTHANT						
07-TSR	2 P C	SPC 027	5 P C 0 2 8	SPC 029	5 P.C 0 3 I	
D 229 D2-01 IN TOUR PRESENT JOB: DO TOU MONK with. USE, OR REFE! To SEMIES OR PARALIEL RESONANT CIRCUIS OR TIME CONSTANT	30	3	0	0	33	
230 02-02 00 TOU MORK MITH. USE. ON REFER TO	30	38	0	0	33	
D2-03 DO TOU HOPE MITH. USE. OF REFER TO		25	0	0	17	SERIES AND PARALLEL
232 03-0" DO TOU BORK BITH.	02	52	0	0	1.1	(TIME CONSTANTS)
THE GENERAL RUL	70	25	0	2	11	
CAPACITOR IS FULLY CHARGED TON DISCHARGE						
43, 52-06 50 You USE		0	0	0	0	
02-07 DO TOU USE EQUATIONS OF FORMULAS TO DETERMINE	20	52	0	0	1.1	
TIME FOR AC OR IN CIRCUITS						
SHOT TOOR 350	10	13	0	0	1.1	
TIME REGULACO FOR CIRCUIT CURRENT ON COMP	10					
REACH SPECIFIC VALUES FOR						
CANADACT CALLES ECUATIONS ON FORMULAS TO DETERMINE	01	13	0	0	11	
100						
TIMES						
IN LA CINCUITS REACHES ITS MINIMUM VALUE 108 ZERO) AFTER		0	•	•		
FIVE 151 TIME CONSTANTS		001	1		00.	
9	90	0	0	001	001	
PRESENT JOB	7.1		C	00	~ «	
3-03 00 You CLE	0,	20	0	0	200	
142 03-04 DO YOU	0.5	63	0	100	20	201113
743 03-08 00 100	9	1,5	0 0	001	19	
STATE OF CO. TO SECOND		. 4	<b>o</b> c		6 0	
30 100 100 00 00 FO		75	כס	000	19	
PARTS						
247 03-09 00 TOU #0RK #17H	0.5	63	0	100	5.0	
748 03-10 DO TOU NURE	20	63	0	100	5.0	
749 J-11 00 YOU #04K #1TH	90	63	0	100	0.5	
450 p3-12 DO TOU 40RK #1TH BAND-MEJECT FILTEMS	30	38	0	100	1.7	
151 03-13 00N'T N	0.6	38	0	0	5.0	
257 63-14 DO TOU ROPE MITH L-SECTION FILTER CONFIGURATI	0,	20	0	100	33	
253 03-15 00 YOU -OR	0.	20	0	001	33	
254 03-16 DO YOU BORK AITH PI-SECTION FILTE	0.	20	0	001	33	
S D3-17 DON'T HEMENBER MHICH TYP! FILTER	01	-	0	2	1.7	
156 03-1"	0.5	38	0	007	17	
CINCUITS 0 257 03-19 00 THE FILTERS YOU MORK AITH USE SERIES-PARALLEI	7	9	0	100	33	
CIRCUITS						
U 454 D3-20 DU THE FILTERS YOU MORK AITH USE SERIES RESONANT	30	38	0	100	11	

RESONANCE

PCI ... AS ALSPONDING .. LS. .. SELLCTE. GHPS

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TASK GROUP SUMPANY

<b>.</b>	050	50	50 COUPLING	33	05	05	33	50	33		• 0	0	0	O SOLDER TMC			0	0.5		0	•				•	0
5 5 6	<b>v</b> -											001 0	001 0		001 0			001 0							6 9	
5 5 6	0.0	001	0 100	0 100	001 0	001 0	0 100	001 0	001 0			0 100			001 0			001					-	-		0 1
2 286	25			3.8	20	0.5	38	50	**			0 100	001 0	_		001 0					-		001	•	2 100	
5 5 6	20 2		0 \$ 0	30	40 5		30	40 5				0 100				001 0						100		-		0 20
200	7~	2 ,	0,	-	7	7	~	* *	30		•	100	100	100	190	100	100	000	100	100	06	100	9	0.6	9	•
07-15k	D 459 D3-21 DON'T REMERH MICH TYPE OF BASIC CIRCUIT D 460 D3-22 DO YOU USE EJUATJONS ON FORMULAS TO DETERMINE CAPACITANCE OR INDUCTANCE VALUES REGUIRED FOR SPECIFIC	E 261 ET-UT DO TOU WORK HITH COUPLING DEVICES IN YOUR PRESENT JOH E 262 ET-UZ DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE COMPONENTS ASSOCIATED WITH MC	E 263 [1-03 DO YOU DENTIFY ON SCHEMATIC DIAGNAMS AND HELATE TO THE ACTUAL COMPUNENTS ASSOCIATED WITH	E ZOM EI-OM DO DOU DENTIE ON SCHEMITIC DIAGRAMS AND RELATE TO THE ACTUAL CINCULTY THE COMPONENTS ASSOCIATED WITH TRANSFORMER COUPLING	E 765 E1-05 DO TOU TROUBLESHOOT CINCUITS WHICH HAVE COMPONENTS	E 400 E1-00 DO TOU TROUBLESHOOT CIPCUITS ANICH HAVE COMPONENTS	E 467 E1-07 DO YOU TROUBLESHOOT CINCUITS WHICH HAVE COMPONENTS	E 269 E1-09 DO YOU ADRE ATTH DIRECTLY COUPLED CINCUITS	CIRCUITS  CAPACITIVE COUPLED	CINCUITS	E 272 EI-12 DON'T MEMEMBER WHICH TYPE OF COUPLING CINCUITS		EZ-02 DO YOU SELECT TYPE	175 E2-U3 DO YOU	E ATA EX-05 OD TOU CLEAN CONNECTIONS USING SOLVENTS	278 £2-06 po 700	279 £2-07 00 TOU BEND OR SHAPE	£ 280 £2-09 no 700 file of Suite South Black Tips	282 £2-10 00 TOU THE SOLDERING	283 EZ-11 00 TOU CLEAN SOLDERING	284 EZ-12 DO YOU CLEAN FLECTHI	785 EZ-13 DO TOU	52-15 00	489 £2-16 00 YOU	E 289 E2-17 DO TOU CUT COMPONENT LEADS TO REMOVE COMPONENTS	190 £2-18 DO YOU CRUSH COMPONEN

PCT ALKS RESPONDING .TES. BY SELLCTED GRPS

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TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING

						RELAYS																			MICROPHONES										
5 P.C	000	100	100	200	000	000	0	100	3	0	0	0	<b>3</b>	19	61		67	200		3	83	1.7		-	11	11	2		1.7	- 1	21	0	0	- 1	0
SPC 029	000	001	100	0	9 9	000	0	100	0 0	0 0	0	0	0	001	1 00		100	1 00		100	100	0		0	0	0	3		0	0	<b>o</b> o	0	0	0	0
SPC 028	000	100	100	0	200	100	0	001	000	9 0	0	0	0	001	100		100	100		100	100	0		0	0	0	0		0	0	0 0	0	0	0	0
SPC 027	0000	001	100	38	2 0	00	0	80	52	90	0	0	0	12	75		75	100		<b>1</b> 0	9 9	1		-	-	_	0		-	-	-	0	0	13	0
200	0000	100	100	30	2 0	100	a	00	0 0	, 0	0	0	0 5	0	90		9	100		90	0.6	10		10	0	10	0		1.0	0	<u> </u>	0	0	10	0
X\$1-10		CAPACITORS ON PRINTED CIRCUIT ET 22 DO YOU SOLDER ACTIVE CONP. DIODES ON THANSISTORS ON PRINT	E3-DI DO TOU WORK WITH RELAYS O	20,		E3-05 00 700	DO YOU HEMOVE OR HEPLACE PARTS OF	E3-07 00 YOU THOUBLESHOOT HELAY	L 302 E3-US DO TOU STREETEN RELAT CONTACTS	E3-10 DO YOU PERFORM TASKS ON HELAY	E3-11 DO TOU PERFORM TASKS ON HELAY	E3-12 DO TOU PERFORM TASKS UN MELAT	E3-13 DO YOU PERFORM TASKS ON HELAY	DO TOU USE ON REFER TO SI	TOU USE OR REFER TO SI	158571,		E 311 E3-17 DO YOU USE ON MEREN TO DOUBLE POLE, DOUBLE THROM	(UPDT) SCHEMATIC SYMBOLS FOR PELAYS	E 312 E3-18 DO TOU USE OR REFER TO OTHER RELAY SYMBOLS SCHEMATIC	E 313 E3-19 DO TOU CHECK ELECTRICAL CONTINUITY OF COILS BY	F 314 F1-01 IN TOUR PRESENT JOR. NO YOU PEHFORM ANY TASKS DEALING	411H HICHOPHONES	F1-02 DO 100	FI-03 DO TOU CLFAN HICHOPHONES	FI-04 DO TOU OPERATE MICHOPHONES	THE STATE OF THE TROUBLESTOOT AS FAR AS CHECKING WING	PARTS ON HICHOPHONES	FI-Le DO YOU TROUBLESHOOT DOWN	שם יפט אבאסאר טא אברושנה	יובטא מס אסר אנאנטאו	FI-ID DO YOU PERFORM TASKS ON C	FI-11 DO TOU PERFORM TASKS ON C	FILIZ DO TOU PERFORM TASKS ON STRANIC M	I SER FILLS DO TOU PERFORM TASKS ON VELOCITY RIBBON MICHORES

PET MENTS RESPONDING OFFIS BY SELECTED GHPS

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TASK GROUP SUMMANY PERCENT MEMBERS PENFORMING

		SPFAKFRS																	USCILLUSCOPES														SEMICONDUCTOR DIDDES					
SPC 031	7	33	33		-		11	33	11	0	9	_ :	2	,	, ,	100	100	100		207	100	00-			19		83	20	100	100	100	100	100	0		:	1.	
5 PC 0 2 9	0	0	0 0	0 0	•		0	0	0	0 0	0	0 0	<b>o</b> :	<b>o</b> c	0	100	100	100	0	000	100	100	000	00.	100		00	100	100	100	100	100	100	0	c	,	0	
5PC 028	0	0	00	<b>o</b>	•		0	0	0	0 (	0 (	0 0	<b>o</b>	<b>o</b> s	0	100	100	100	90	2	100	001	0	00	100		001	000	100	100	100	100	20	0		3	0	,
SPC 027	25	25	52	2	2		13	52	13	0	c :	2 :	?	0 0	0 0	100	100	100	0	000	100	001	9 9	80	75		<b>10</b>	•	100	100	8	100	100	0	:	2	13	:
450	02	20	07	0	01		2	02	2	C	0	0	2	0 0	0	100	100	100		000	100	001	30	0.4	080		•	10	100	100	6	100	06	0	-	2	10	
x21-70	IN YOUR PRESERT	#1Th SPEAKEMS F 32H F2-02 DO YOU LASPECT SPEAKEMS	F2-U3 DO TOU	FZ-U+ DO TOU UPERATE SPEAKERS	F 331 FZ-US DO TOU THOUBLESHOOT AS FAR AS CHECKING WINE COMMECTIONS BUT DO NOT TRUBBLESHOOT DOWN TO CUMPONENT	N. T. S.	ESHOUT DONG	DO YOU REMOVE UR REPLACE	DO YOU HE YOVE OR HEPLACE	FZ-39 DO TOU PEMFORM ANY TASKS ON SPEAKER	FZ-10 DG TOU PERFORM ANY TASKS ON SPEAKER	FZ-11 DO TOU PERFORM ANY TASKS O'S SPLAKER	67-12 00 100	ANY TACKS ON SPERKER	FZ-15 UD TOU PERFORM ANY TASKS ON SPEAKER	FIND DO YOU USE OSCILLOSCOPES IN YOUR PRE	F3-02 DO TOU USE OSCILLOSCOPES TO	CHECKS 344 F3-03 DO YOU USE OSCILLUSCOPES TO PERFORM ALIGNMENTS OR	AUJUSTMENTS	A SAS FRANCE OF THE USE USETITION OF THE INCOME SHOULD ELECTRONIC	346 F3-US DO TOU USE OSCILLUSCOPES TO HEASURE	347 +3-36 00 TOU USE OSCILLOSCUPES TO MEASURE	348 F3-07 DO YOU USE OSCILLOSCOPES TO OBSERVE	THE PROPERTY OF GOOD ONE OF THE PROPERTY OF TH	E 350 E3-09 DU YOU USE OSCILLOSCOPES TO MAKE FREGUENCY OR TIME	MEASUREMENTS USING DELAY TIME HUL	F 351 F3-10 DO TOU USE OSCILLOSCOPES TO MEASURE AC VOLTAGE	STATE OF THE SECOND SECOND STATE OF STATE OF DESCRIPTION OF STATE	0	J'C	SECTION OF THE PREST PROPES	356 61-03 00	JS7 61-04 DU	358 GI-05 DO YOU USE ENEMGY LEVEL JIA	0100	TOGETHER WITH VALUES OF FORMAND AND REVERSE BIAS VOLTAGE.	TO COMPUTE FORMARD OR REVERSE LIAS MESISTANCE FOR A SALE AND TOU COMPUTE FORMARD OF REVERSE BIAS RESISTANCE FOR	DIODES

PESUNZ PAGE 14

25 28 580 580 580 580 580 580 580 580 580 58	05 05 05 05	00 1 00 1 00 1 00 1 00 1 00 1 00 1 00	0 0 0 0	s 60 75 0 100 83	5 001 0 05		01 001 05 001 04	0 0 0 0 0 00	0 0 0 0 0	s 60 75 0 0 100	0 0 0 0	0 0 0 0 0 0	0 0 0 0 0	0 0 0	0 0 0 0 0 0	190 100 100 100 100	11 0 0 11 01 3	1vt 4n 5a u 100 5a	20 25 0 0 33	29 0 0 05 04	0 0 0 0
07-TSA	361 GI-DE DO YOU USE ON HEREM TO THE GENERAL MULE THAT	IDENTIFY SENTENDUCTON DIODES AS OPPOSED INVOICE COMPONENTS, SUCH AS RESISTORS, BASED		EFFECTS OF DOPING ON CURRENT FLOW SILLID OF FORMARU BLAS	GI-12 DO TOU USE ON WEREN TO DIODE COLOR CODING	GLETTS DO TOU USE ON MEREN TO CENTRIFUGAL FONCE OF ELECTRON IN ORBIT AND NO A NUCLEUS.	JOS GILTA DO TOU USE OR REFER TO CENTRIFICAL FORCE OF AN UNITED TO TOUR OF AN UNITED STATES SUCH JAB GILTS DO TOU USE OR REFER TO DIODE NUMBERING STATES. SUCH	OR PEFER 10	3	ELECTHON MOVING IN ORBIT 371 GI-16 DO TOU USE OF MEFER TO MEASUNEHENTS OF REVERSE BIAS		DRGIT IFER TO PERMISSIBLE ENERGY LEVELS	AN OMBITING ELECTRON 574 GI-ZI DO TOU USE ON PERENT TO FORBIDDEN ENENGY LEVELS OF	OHBITING ELECTHON 375 51-25 TO USE OR REFER TO VALENCE ELECTHONS (THOSE IN	THE GOTERHOST SHELL!	STA CLEATHONS IN ATOM )	THUSTATE THE CATHODE END 374 GI-25 DO TOU YEED TO KNOW WHICH MATERIALS ARE USED IN THE CONSTRUCTION OF SHORES OUT AS CHMMANIUM OF STITCON	SENICONDUCT	INCHEASES MESISTANCE DECREASES) SAN GILLER CALARACTERISTIC CORNES, SUCH AS VOLTAGE - CURPENT	R PA JUNCTE ASED THEN Y	187 GI-29 DO TOU USE OR HEFER TO VALENCE BAND IN SEMICONDUCTOR MATERIALS

PCT HAMS ALSPONDED .. . TES. LT SELLCTED GMPS

SPSONZ PAGE

TASK GROUP SCHARMY PERCENT HEMSERS PLFFORMING

JAR 6.1-35 DO TOU USE ON REFER TO DONOR IMPURITY IN SEMICONDUCTORS  JAR 6.1-36 DO TOU USE ON REFER TO ACCEPTON IMPURITY IN SEMICONDUCTORS  JAR 6.1-34 DO TOU USE ON REFER TO N-TYPE SEMICONDUCTOR MATERIAL  JAR 6.1-34 DO TOU USE ON REFER TO M-TYPE SEMICONDUCTOR MATERIAL  JAR 6.1-34 DO TOU USE ON REFER TO MINORITY CAMPIERS IN SEMICONDUCTORS  JAR 6.1-34 DO TOU USE ON REFER TO JUNCTION RECOMBINATION IN SEMICONDUCTORS  JAR 6.1-34 DO TOU USE ON REFER TO DEPLETION REGION IN SEMICONDUCTORS  JAR 6.1-34 DO TOU USE ON REFER TO DEPLETION REGION IN SEMICONDUCTORS  JAR 6.1-34 DO TOU USE ON REFER TO THE 10:1 BACK TO FROMT MESTS TAME OF MATINIAL AND DIFFERENCE OF POTENTIAL  JAR 6.1-34 DO TOU USE ON REFER TO MAXIMUM AVEAGE FORMAND CONNERNITY  JAR 6.1-34 DO TOU USE ON REFER TO MAXIMUM AVEAGE FORMAND CONNERNITY  JAR 6.1-34 DO TOU USE ON REFER TO MAXIMUM SURGE CURRENT DIDDE  JAR 6.1-35 DO TOU USE ON REFER TO PEAK REVERSE INVERSEL TON TAME  JAR 6.1-35 DO TOU USE ON REFER TO PEAK REVERSE INVERSEL TON TAME  JAR 6.1-35 DO TOU USE ON REFER TO PEAK REVERSE INVERSEL TON TAME  JAR 6.1-35 DO TOU USE ON REFER TO PEAK REVERSE INVERSEL TON.	PAIN CREATED IN 0  17.  17.  17.  18.  18.  18.  18.  18.	25.2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				
62-01 DO TOU MORK WITH TRANSISTORS IN TOUR PRESENT 62-02 DO TOU INSPECT TRANSISTORS	000	9 9 0	000	000	000	
62-03 50 700	001	001	001	001	100	
	0.6	100	20	0001	001	
GZ-06 DO YOU USE OR REFER TO COLLECTOR	۵	100	20	001	001	

**TRANSISTORS** 

PCT HERS RESPONDING TEST BY SELECTED GRPS

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SPSUME PAGE

TASK GHOUP SUMMANT PERCENT MEMBERS PERFORMING

																			TRANSISTOR AMPLIFIERS						
SPC 031	001	2	9	6.7	20	001	100	1.1	25	2	33	c 0	C	0 0	0	83	100	100	100	001	100	20		1.7	
SPC 029	100	0	0	0	0	001	100	0	0	0	<b>o</b>	0 0	0	0 0	0	100	100	100	100	100	000	100		100	
5 P C	20	0	0	0	0	100	0	o	0	0	0 9	200	0	0 0	0	50	100	100	001	000	000	0		0	
5 PC	001	0	0		50	100	100	52	8	52	9 -	2 2	13	0 0	0	T T	88	100	001	100	500	5.0		25	
SPC 026	0.	0	O	8.0	3	100	8.0	30	0.0	20	30	50	2	0 3	2	9	06	001	100	000	000	7		7.0	
D1-15K	G 110 GZ-07 DO YOU USE OR PEFER TO ENITTER - COLLECTOR (EC)		REFER	C 413 62-10 DO YOU USE OR REFER TO THE PHYSICAL STATE OF THE TARGET OF THE PHYSICAL STATE OF THE THYSICAL STATE OF THE THY OF THE TH	G 114 G2-11 to 050 OF OF PEFER TO LEAKAGE CURRENT (ICBO) IN A	G 415 GZ-12 DO TOU USE OR REFER TO THANSISTOR SCHEMATIC STRBOLS G 414 GZ-13 DO TOU USE OR REFER TO TRANSISTOR NOTATION SUCH AS	41. 42. 43. ETC G MEFER TO THANSISTOR SUBSTITUTION	PEFER TO THE GENERAL RULE THAT THE HARNT IS IS NORMALLY SIGNIFICANTLY	SMALLER THAN THE HITTER CURRENT IE IUSUALLY 18 BEING 2 TO B PERCENT OF 1E) 6 419 62-16 DO YOU USE THE INFORMATION THAT THE EFFECT OF EMITTER BASE VOLTAGE ON BASE CURRENT IS THE CONTROLLING FACTOR FOR TARKSTATORS	11CB0 1 IN A TRANSIS	CURVES CONTRACTOR OSE OR	42-40 00 TOU USE	424 62-21 00 700 USF ON HEFER TO GAMMA TRANSISTOR	G 125 GATES DO TOU CALCULATE BETA TARNSTSTOR GAINS	427 62-24 DO TOU CALCULATE GAMMA THANSISTOR GAINS	6 424 35-01 DO TOU HORK MITH TRANSISTOR AMPLIFIERS IN YOUR	3-02 00	430 63-03 00 YOU ALIGH	100 HS 1 HOUBLE SHOOT	4 437 44-04 DO TOU MEHOUS OR BEPLACE THE COMPONENTS	*34 .3-07 NO TOU HEHOVE	*35 43-64 60 fou use of HE	CTOR CURRENT A	6 43A 33-09 EO TOU USE ON HEFEN TO COMMON ENITER) THE CALCULATIONS NECESSARY TO HEASURE THE SPECIFIC CHANGE IN COLLECTOR CUMPENT HISM RESULTS FROM A SPECIFIC CHANGE IN	

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GPSUMZ PAGE 17

TASK CHOUP SUNVANT

		01-75x	5 PC 0 2 6	5PC 027	5 PC 0 2 8	5 P C	250	
3	137	13	7	0.5	0	001	20	
9	438	CURRENT DO TOU USE OR REFER TO (COMMON ENTITER) THE CALCULATIONS NECESSART TO MEASURE THE SPECIFIC CHANGE IN	30	38	0	100		
9	5	9	20	25	0	100	1	
,	;	53-13 CALC	0	0	٥	9	2	
٠	ī	dase CURMENT ANICH RESULTS FROM A SPECIFIC INPUT SIGNAL 63-19 DO TOU USE THE LOAD-LINE METHOD OF ANALYSIS IN YOUR CINCUIT ANALYSIS (THIS METHOD OR REQUIRES YOU TO PLOT A	0	0	O	0	0	
9	;	,	30	3.9	0	100	1.7	
5	£ + 3	.5	0	0	0	0	O	
,	7	9	10	7.5	20	100	6.7	
9	4.5	63-18 00	•	38	05	100	1.1	
3	*		30	52	50	100	D	
9	4.47	51-20 00 51570#5 10 845E-	0	O	0	0	0	
9	*	9	C	0	0	0	D	
,	;	9	С	0	0	0	э	
9	150	9	0	э	0	0	0	
,	\$	THE THANSISTORY OF THE STATIC OPERATING POINT [43 OF A TARNSISTOR AT DIFFERENT TEMPERATURES	0	C	o	0	0	
,	5	63-25 DO TOU IDENTIFY ON THE ACTUAL CIRCUITRY THE	30	8	0	001	1.3	
9	153	9	30	38	0	001		

PERCENT MEMBERS PERFORMING

07-75K	5 P C 0 2 6	5PC 027	5PC 028	5PC 029	SPC 031	
154 G4-27 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH THERMISTOR STARTLLYATION	30	38	0	100	-1	
	30	8	0	001	11	
"SE G3-29 DO TOU DENTIFY ON SCHEMISC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH REVERSE WAS DISCOURS OFFICE OFFICE ASSOCIATED WITH	30	38	0	001	-	
	30	*	0	001	-	
458 (3-3) DO TOU TROUBLESTON CIRCUITS WHICH HAVE COMPONENTS MILICA PERFORM EMITTER (SWAMPILG) RESISTOR STABILLIZATION	0	20	0	100	33	
#59 63-32 DO TOU THOUBLESHOOT CINCUITS WHICH HAVE COMPONENTS THICH PERFORM SELF-BIAS STAHLLIZATION	9	6.0	0	100	33	
THE GATAL DO YOU THOUBLESHOOT CINCUITS WHICH HAVE COMPONENTS WHICH PERFORM THERMISTOR STABLL ZATION	0	20	0	001	33	
	0,	20	0	001	33	
462 63-35 DO TOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS	0,	0.5	0	100	33	
163 G-36 DO TOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS	0,	0.5	0	100	33	
464 63-37 DO TOU TOENTIET AMPLITUDE DISTORTION FOR TRANSISTOR	30	3	0	100	33	
465 GARAN DE TOU TROUBLESHOOT TRANSISTOR CIRCUITS TO FIND THE	20	63	0	100	19	
"68 63-79 DO TOU IDENTIFY FREQUENCY DISTORTION FOR TRANSISTOR	0,	20	0	100	20	
467 GARCOLLS TO TOU IDENTIFY PHASE DISTORTION FOR TRANSISTOR	10		0	100	0	
THE GAT DO TOU TROUBLESHOOT THANSISTON CINCUITS TO FIND THE	10	13	0	100	0	
469 G3-42 DO TOURSE DISTORTION CARCUITS TO FIND THE CAUSES OF PREDICTION	9.0	38	0	100	33	
THE CANTO TO SEED TO KNOW THE DEGENERATIVE EFFECTS ON THE CIRCUIT CAUSED BY CHANGING EMITTER MESISTANCE FOR THANSISTOR AMPLIFIERS IN THE CUMMON COLLECTOR	0	2	9	001	0	
471 GB-44 GO YOU DETERMINE THE CLASS OF UPERATION FOR	30	38	С	100	33	
POUBLE SHOOT	30	99	0	100	1.1	
00 41-69	30	3.6	001	100	19	
47. 3-46 DO TOU THOUBLESHOOT OR R. PAIR COMPOUND-CONNECTED AMPLIFIERS	30	9	0	100	1.1	

TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING

			SECTIVE STATE SECTION STATES OF IOS	SOLID-STATE SPECIAL PURPOSE DEVICES						POWER SUPPLIFES																											
570	20	11	200	50	83	100	100	100	100	000	100	100	100	001	2	50	1.7	100	67	83	20	20	33	33	20	001			0	50	3.3		33	1.7		0	1.7
5 P C 0 2 9	100	0	100	0	100	0	100	100	001	001	000	100	100	000	2	100	1 00	100	100	100	100	100	100	0	100	000	2 6		2	100	100		100	0		0	100
5 P C	0	0 0	00	0	20	20	100	100	100	000	100	100	100	000		100	100	100	100	100	100	20	20	20	001	001			•	0	0		0	100		0	0.50
SPC 027	63	= 3	63	20	88	8 8	100	88	80	000	100	100	100	000		63	38	100	75	98	63	63	20	38	9	100	3	3 2	2	63	5.0		20	13	c	0	25
SPC 026	20	0 .	20	0	08	80	100	06	06	000	000	100	100	000	2	10	20	100	08	00	10	09	20	0	70	100			2	50	3		40	30	(	0	30
07-75k	6 476 63-49 DO YOU TROUBLESHOOT OR REPAIR CASCADE CONNECTED AMPLIFIERS	477 HI-UI DO TOU USE OR REFER TO VARACTO	H 479 HI-03 NO YOU USE ON MEREN TO FIRED REFERE TRANSISTORS (FET)	480 HI-D4 DO YOU USE ON REFER TO UNIJUNCTION THANSISTORS	*81 HI-05 DO YOU USE OR HEFER TO	HI-06 DO TOU USE OR REFER TO INTEGRATED CIRCUITS	HZ-DI IN TOUR PRESENT JOB.	HZ-02 DO TOU	*85 HZ-03 DO TOU CLEAN POWER SUPPLIES	H 486 HZ-04 DO YOU TENDER AND ON TO BOARD SUPPLIES	*88 HZ-06 00 YOU TROUBLESHOOT TO POWER	489 HZ-07 DO YOU REHOVE OR	490 HZ-08 DO YOU REHOVE OR	H 491 AZ-09 DO TOU BORK BITH HALF-HAVE RECTIFIERS	HALIDGE RECTIFIEDS	493 HZ-11 DO YOU WORK	You	495 H2-13 DO YOU USE OR REFER TO INPUT	HZ-14 DO YOU USE OR REFER TO	497 H2-15 DO YOU USE OR REFER TO PLAK DUT	498 H2-16 DO YOU USE OR REFER TO AVERAGE	499 HZ-17 DO YOU USE OR REFER TO RIPPLE	SOO HZ-18 DO YOU USE ON REFER TO RIPPLE	501 HZ-19 DO YOU USE OR REFER TO	502 HZ-20 DO TOU USE OR REFER TO	H 503 H2-21 DO 100 USE OF REFER TO EFFECTIVE OUTPUT VOLTAGE H 504 H2-22 DO 700 HORK HITH CIRCUITS MHICH FAPLOY CAPACITIVE	FILTERS OF COMMENTS OF COMMENT	FILTERS TO YOU ARRY WITH CIRCUITS WHICH	INPUT L-TYPE ELLTERS	H 507 HZ-25 DO YOU WORK WITH CIRCUITS WHICH EMPLOY INDUCTIVE	H SOR AZ=26 DO YOU WORK WITH CIRCUITS WHICH FAPLOT LC PI-TYPE	FILTERS	H 509 H2-27 DO YOU WORK MITH CIRCUITS WHICH EMPLOY RC PI-TYPE	H 510 H2-28 DO YOU WORK WITH CIRCUITS WHICH EMPLOY DON'T	REMEMBER WHICH TYPE OF FILTER	FILTER WITH A DIFFERENT TYPE FILTER	H 512 H3-01 DO YOU MORK MITH OSCILLATORS IN YOUR PRESENT JOB

PC BLMS RESPONDING TEST BY SELECTED GMPS

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TASK GROUP SUMMANY PERCENT MEMBERS PERFORMING

5PC 031	0.50	200	50	5.0	50	33		50	20	11		0	33	33	5.0	5.0	\$0	•		17		27	0	0 0			50	50	MULTIVIBRATORS		•		~		0.5	33	
SPC 029	00	000	001	100	001	000		100	001	001	0	0	100	001	001	100	001	,	0	0	c	0 0	0	0	100	00.	000	0	5	2 5	2	001	100		100	0	
5 P.C 0 2 8	05	0	0	0	0 0	0		0	0	0 0	0 0	0	0	0	٥	0	0		0.5	0		9 0	0 0	, ,	20	0	0	0	c	0 0	,	0	0		0	٥	
580	05	200	90	20	50	5 6		20	20	36	; :		3.	38	20	05	50		?	- 1	c	-	2 0	0	52	0	25	38	,		;	•	6		20	5.2	
5 PC	0.5	7	0	0,	9	30		0,	0	30	2 -		30	30	2,	9	0,		- 7	10		-	2 0	0	30		7	30		2	70	20	50		0	50	
0.Y-15K	313 H3-UZ DO	515 43-04 00 100	510 43-05 00 YOU REHOVE	517 43-30 00 YOU TROUBLESHI	518 H3-07 DO YOU THOUSE SHOOT	H SIN HATON DO TOO USE ON REFER TO FEEDBACK DETERMINING DEVICES	1,001	521 H3-10 DO YOU USE OR REFER TO AMPLITUDE	5.22 H3-11 DO YOU USE OR REFER TO	H3-12 DO TOU USE OR REFER TO DAMPING	DO 61-14 55	124 43-15 OO TOU USE OF REFER TO	527 13-16 00 TOU USE OR REFER TO	528 HJ-17 DO YOU USE OR PEFER TO	529 H3-18 JO TOU 409K WITH OSCILLATOR	CINCUITS AS FDD ASCILLATORS WAICH USE RC NETWORKS AS A 530 A3-19 DG YOU WORK WITH OSCILLATORS WAICH USE RC NETWORKS AS	FDD 531 13-20 DO TOU NORE WITH DSCILLATORS WHICH USE CRYSTALS AS	0.7	H 532 H3-21 DO TEO AOM AITH OSCILLATORS WHICH USE BON'T KEMEMBER	H 543 H3-22 DG TOU WORK MITH SEMIES HARTLEY SINUSOIDAL	OSCILLATORS	A SECTION OF THE POST OF THE SHOW HER THE STANDONDAY CONTINUES.	514 HOLD DO 100 HOLD SEE	537 H3-46 DG 700 m0PK with	534 H3-27 00 YOU WORK WITH DON'T R		CONTROL SALESTAN AND SALESTANDS OF THE TANGENT DON ON THE TANGENT DON THE TANGENT DON ON	ON YOU ALIGN OR ADJUST WAVE GENERA	CIACUITS	CALIBRATE PATE OF THE ALLING	STILL SO TOO INDUBLE SHOOT TO HAVE	1 544 11-36 JO TOU TROUBLESHOOT TO MAYE GENERATING OR SHAPING	CINCUIT COMPONENTS  1 545 11-37 00 YOU REMOVE ON REPLACE COMPLETE MAYE GENERATING OR	SAAPING CIRCUITS	I SHE II-US DO TOU MEMOVE ON MEPLACE MAVE GENEMATING OR SHAPING	1 347 11-19 DO YOU TORK AITH HULTIVIPRATORS WHICH CONTAIN LC TANK	51103413

PLT MAHS MESPONDING . YES. BY SELECTED GRPS

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TASK GROUP SUMMANY PERCENT MEMBERS PERFORMING

														LIMITERS AND CLAMPERS												and the second second	ELECTRON TUBES																			
031	19	33	1.1		5.0	20	5.0	0	1	67		33	33	1.1	67	3.1	, ,	, -		2	,	1,		1.1	11	11	17	-	11	11	11	0	9	1.1	0	0	•							9		
050	001	100	0		0	0	100	0	R	001		0	0	0	0	0	0 0	0 0		0	0	100		0	0	0	0	100	0	0	0	0	0	0	0	0		0	0	0 0	<b>o</b>	0	0 0	0		
970	o	20	20		0	0	0	20		50		0	0	0	0	0	2	,	0	9	00	100	2	100	0	0	0	100	0	0	0	0	0	0	0	0	c	0	<b>o</b> c	0 0		0	0 0	0		
027	•	96	=		38	38	05	0		63		25	52	13	20	25		, :	2 -	-	0	25		13	13	13	13	52	2	-	13	0	0	-	0	0	:	2 :	2 :	2 :		2 :	2	0		
020	05	0	50		30	30	0,	10		90		20	20	0	•	200	-	2 0	2 :	2 9	2	40	,	30	01	01	0	0,	0	0	0	0	0	10	0	0	-	2 :	2 .	2 0	2 .	0	0	0		
07-15k	548 II-10 DO TOU MORK WITH MULTIVIBRATORS WHICH CONTAIN RC	549 11-11 DO YOU NORK NITH MULTIVIORATORS WHICH CONTAIN	CRYSTALS SEG 11-12 NO YOU MORE WITH MULTIVIERATORS WHICH CONTAIN DON'T	NEMEMBER AHICH TYPE OF FOD	11-13 DO TOU MORK WITH ASTABLE HUL	552 11-14 DO YOU BORK MITH HONDSTANIE HULTIVIBRATORS	DO YOU WORK WITH	HILL MON DOL OF THE		SEC 12-01 DO YOU MORE WITH LIMITERS OR CLAMPERS IN YOUR	PRESENT JOB		12-03 DO YOU MORK WITH SHUNT D	YOU BORK BITH LIMITERS WI	12-05 DO YOU WORK WITH JENER DIODE	SOLATANA THE SOLATION OF ALL TRANSFER	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	THE WORLD STORY IN THE WORLD STORY OF SOLES.	ולים מס ימם אינוא פאסור מוסמב	12-04 DO TOU MORK WITH DIODE CLAMPING CINCOLLS	SOUTH INTERIOR OF THE PONT I KNOW WHICH I'VE UP CLANFING	SAS 13-01 IN TOUR PRESENT JOB. DO VOU WORK ON FRUITMENT WHICH	CONTAINS ELECTRON TUBES	SAS 13-02 DO YOU CHECK FLECTRON TURES TO SEE IF THEY ARE GOOD	13-03 DO YOU USE TUBE TESTERS TO	13-04 DO YOU USE MULTIMETERS TO CH	13-US DO TOU USE SCOPES TO CHECK E	13-06 DO YOU USE SUBSTITUTION TO C	13-07 DO TOU USE ON MEFER TO CUTOFF	13-08 DO TOU USE ON REFER TO PEAK INVERSE	13-09 00 100 USE OR REFER TO PEAK	13-10 DO TOU USE OR REFER TO THANSI	5 13-11 00 100 USE OR REFER TO PLATE	13-12 DO YOU USE OR REFER TO SATURATIO	13-13 DO TOU USE OR REFER TO DE PLATE RESIST	578 13-14 DO YOU COMPUTE ACTUAL VALUES OF THE DC PLATE	CE FOR ELECTRON TUBES	ISTIS DO 100 USE OR MEDER TO PLATE	ואיום סם יסם מצב מא אביבא ום הראו	יובים של יום משל מש מביבו	וזבופ מס מסב מא עבוב או מיוום	13-14 DO 100 USE OR HEFER TO	13-20 DO TOU USE OR REFER TO CATHO	USE OR HEFEN TO THE TRIODE AMPLI	CATION FACTOR FOR INTODES IS DEFT	CHANGE IN PLATE VOLTAGE

2	PCT HERS ALSPONDING TEST OF SELECTED GMPS		5	GPSUMZ PAGE	PAGE	77	
	TASK GROUP SUMMANT PLRCENT MEMBERS PERFORMING						
	DY-75K	5 PC 0 2 6	5PC 027	360	5 PC 0 2 9	SPC 031	
-	344 13-22 DO TOU CALCULATE ACTUAL VALUES OF TRIODE	0	0	0	0	0	
-	00 TOU USE ON	0	0	0	0	0	
-	ETC) AMPLIFICATION FACTORS S88 13-24 DO YOU USE OR REFER TO ELECTHON TUBE TRANSCONDUCTANCE	٥	0	0	0	c	
-	19-25 00 TOU CALCULA	0	0	0	0	0	
	TAANSCONDUCTANCES	0	0	0	0	0	
-	CALLED AC PLATE RE	Э	0	0	0	9	
-	MESISTANCE 592 13-28 DO YOU USE ON MEFEN TO ELECTROM TUBE INTERELECTRODE	9	0	0	0	9	
-	CAPACITANCE SH REFEM TO CHARACTERISTIC CURVES IN YOUR	a	0	0	0	0	
-	USE CH	0	0	0	0	D	
-	4 5	0	0	0	0	9	
-		0	0	0	0	0	
-	OB	0	O	0	0	0	
	RECUIRED FOR SATURATION 598 JA-35 TO 700 USE ON MERENTO ELECTRON TUBE AMPLIFIEM GAIN 598 JA-35 TO TOU USE ON MERENTO ELECTRON TUBE AMPLIFIEM	100	22	00	100	co	
-	EFFICIENCY	Ð	0	0	0	0	
-	TUBE AMPLIFIER GAIN	c	0	0	2	O	
-	AMPLIFIER GAIN 602 13-36 DO TOU USE DSCILLUSCOPES TO DETERMINE ELECTION TUBE	0.2	52	2	100	1.1	
-		0	o	0	0	0	
-	ELECTHON TUBE AN	0	e	0	0	0	
	AS INPUT CAPACITANCE	9	2	100	00.		
	UR MEFER 10	30	5.2	20	001	- 2	
	AND 13-43 DO YOU USE OR MEPER TO THE TYPE OF MATERIAL OR THE OPERATING SURFACE IN THE	0	0	0	0	9	
-	ELECTION TUBES YOU HORK ON.	0.2	:	20	D	1.1	
,	10 100 40K WI	10	=	0	0	11	
7	IN TOUR PRESENT JOH 010 JI-02 DG TOU DETERNINE THE CLASS OF UPERATION FOR ELECTRON TUBE AMPLIFIERS IN ORDER TO TATUBLESHOOT AMPLIFIEM	0	0	9	0	0	ELECTRON TUBE AMPL
	CIRCUITS						WIND STREETING

PCT HARS HESPONDING .YES. DY SELECTED GAPS

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TASK GROUP SUMMARY PENCENT MEMBERS PERFORMING

										SPECIAL PURPOSE ELECTRON TUBES																			CAR MOTTA HIGON CALINOCOGITAL	DEMODILI ATTON						2701000	AM STSIEMS	
5 P.C 0 3 1	0	0	0		0	0	0		. 0			0	0		33			33			33	0 0			0	33	11		2	o :		11	11	-	1.7			
5PC 029	0	0	0		0	0	0	c	0	0	•	0	0		0	0		0			0	9 0	0	0 0	0 0	0	100		001	000	2	0	100	0	c	0	00	
280	0	0	0	(	0	0	0	c	0	0	,	0	0		0	0		0			0	0 0	0 0	0 0	0	0	90		20	0 0	•	0	0	0	c	, 0	00	
SPC 027	0	0	0		0	0	0	-		=		0	0		52	25		25			52	0 0	:	::		52	52		57	2.	53	13	52	-	=	: :	2	
200	0	0	0	•	0	0	0	-	. 0	9	:	0	0		50	50		20			0.2	0 0		2 -		50	30		0.	0.0	0,	10	20	10	9	20	0	
DT-15k	JI-03 DO TOU TROUBLESHOOT ON REPAIR	612 JI-U- DO YOU TROUBLESHOOT OR REPAIR	JI-US DO YOU TROUBLESHOOT OR REPAIR	AMPLIFIERS	JOIN JI-US DO TOU TROUBLESHOOT ON MEMAIN CASCADE-CONNECTED	J 615 JI-07 DO YOU THOUBLESHOOT OR REPAIR DON'T KNOW WHICH TYPE	U BIS JZ-DI DO YOU MORK MITH GAS TUBES (HOT CATHODE OF COLD	CATHODE)	U SIR JE-03 NO YOU USE OR REFER TO THE CHARACTERISTICS OF BEAM	POWER TUBES	POWER TUBES ARE USED	J 620 J2-05 DO TOU USE OR HEFER TO THE CHARACTERISTICS OF	J 621 J2-06 DO YOU TROUBLESHOOT OR REPAIR CIRCUITS IN WHICH	THEMATRONS ARE USED	J 622 JE-07 DO TOU USE ON REFER TO THE PHINCIPLES OF OPERATION OF	ELECTRON GUNS OF CATHODE-MAY TUBES ICRT! J 623 J2-U8 DO YOU USE OR REFER TO THE PRINCIPLES OF OPERATION OF	ELECTHOMAGNETIC DEFLECTION SYSTEMS OF CATHODE-RAY TUBES	(CHT) LOST 12-UP DO TOU USE OR REFER TO TAF PRINCIPLES OF OPERATION OF	ELECTROSTATIC DEFLECTION SYSTEMS OF CATHODE-HAY TUBES	(CR1)	675 J4-10 DO TOU USE OR REFER TO PH	U S. C. L. L. DO TOU USE OR REFER TO ALADAGE CONTINGS	130 32 12 00 100 03E OR AFFER	2-14 OO THE USE OF HERE	630 12-15 no You use OR REFER	J2-16 DO YOU USE OR REFER	632 33-01 00 100	PRESENT JOB	SAS JA-UZ DO TOU PERFORM TASKS ON F	A CAST TOTAL TO THE PARTY OF TH	THE THE TANK ALL THE TRANSPILL OF	YOU PERFORM TASKS ON H	637 J3-06 DO YOU PERFORM TASKS ON MODULA	100	PHESENT JOB	640 KI-03 DO YOU	XI-04 00 YOU ALIGN OF ADJUST AN	

PCT MURS HESPONDING TEST BY SELECTED GAPS

GPSUMZ PAGE 24

TASK GROUP SUMMANY PERCELT MEMBERS PERFORMING

01-15h  643 1-05 DQ 700 THOUBLESHOOT TO AM TRANSHIT ON RECEIVE 643 1-05 DQ 700 THOUBLESHOOT TO AM TRANSHIT ON RECEIVE 644 1-05 DQ 700 THOUBLESHOOT TO AM TRANSHIT ON RECEIVE 645 1-06 DQ 700 THOUBLESHOOT TO AM TRANSHIT ON RECEIVE 646 1-07 DQ 700 FEHOVE ON REPLACE AM TRANSHIT ON RECEIVE 647 1-10 DQ 700 PEHON TASKS ON HE APPLIFIENS 648 1-11 DQ 700 PEHON TASKS ON HE APPLIFIENS 649 1-11 DQ 700 PEHON TASKS ON HE APPLIFIENS 640 1-11 DQ 700 PEHON TASKS ON HE APPLIFIENS 641 1-11 DQ 700 PEHON TASKS ON DOW'T RENNERSH WHICH AM STAGE 641 1-11 DQ 700 PEHON TASKS ON DOW'T RENNERSH WHICH AM STAGE 642 1-11 DQ 700 PEHON TASKS ON DOW'T RENNERSH WHICH AM STAGE 643 1-11 DQ 700 PEHON TASKS ON DOW'T RENNERSH WHICH AM STAGE 644 1-12 DQ 700 USE ON HEFER TO SELECTIVE STABILIZATION IN 645 1-19 DQ 700 USE ON HEFER TO SELECTIVITY OF RECEIVERS 645 1-19 DQ 700 USE ON HEFER TO SELECTIVITY OF RECEIVERS 645 1-19 DQ 700 USE ON HEFER TO SELECTIVITY OF RECEIVERS 645 1-19 DQ 700 USE ON HEFER TO SELECTIVITY OF RECEIVERS 645 1-19 DQ 700 USE ON HEFER TO SIGNATION 645 1-19 DQ 700 USE ON HEFER TO SIGNATION 647 1-12 DQ 700 USE ON HEFER TO SIGNATION 648 1-19 DQ 700 USE ON HEFER TO SIGNATION 649 1-12 DQ 700 USE ON HEFER TO SIGNAL MARDON TO SIGNATION 649 1-12 DQ 700 USE ON HEFER TO SIGNAL MARDON TO SIGNATION 640 1-12 DQ 700 USE ON HEFER TO SIGNAL MARDON TO SIGNATION 641 1-12 DQ 700 USE ON HEFER TO SIGNAL MARDON TO SIGNATION 642 1-12 DQ 700 USE ON HEFER TO SIGNAL MARDON TO SIGNATION 644 1-12 DQ 700 USE ON HEFER TO SIGNAL MARDON TO SIGNATION 647 1-12 DQ 700 USE ON HEFER TO SIGNAL MARDON TO SIGNATION 648 1-12 DQ 700 USE ON HEFER TO SIGNAL MARDON TO SIGNATION 649 1-12 DQ 700 USE ON HEFER TO SIGNAL MARDON TO SIGNATION 640 1-12 DQ 700 USE ON HEFER TO SIGNAL MARDON TO SIGNATION 641 1-12 DQ 700 USE ON HEFER TO SIGNAL MARDON TO SIGNATION 641 1-12 DQ 700 USE ON HEFER TO SIGNAL MARDON TO SIGNATION 642 1-12 DQ 700 USE ON HEFER TO SIGNATION TO SIGNATION 643 1-12 DQ 700 USE ON HEFER TO SIGNATION	22 22 22 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25	10 13 0 20 25 0
	1-05   00   100   170   100	KZ-UY DO YOU PERFORM TASKS

PET MANS NESPONDING .VES. BY SELECTED GRPS

CPSUMZ PAGE 25

TASK GROUP SUMMANT PLRCENT MEMBERS PERFORMING

														SALE SALES	NUMBERING SYSTEMS											LOGIC FUNCTIONS												
SPC	150	1.7	11	11	1.1	1.1	11	1.1	-1			50	93	20	5.0	33	20	20	33	33	1.7		11	20	11		-		<u>.</u>	20	0	0	33		0	05	20	2
SPC		100	100	100	001	001	001	1 00	100	001	2	100	c	,	0	0	0	0	0	0	C	,	0	0	0		0	0	0	0	•	•	0	•	•	0	0 0	>
SPC	970	0	0	0	0	0	0	0	0	•	,	0	100		0	0	100	0	20	20	20	3	0	100	100		001	100	001	100		2	100	000		100	001	00
365	1	52	52	52	52	52	52	<b>5</b> 2	52	25	?	20	9	;	38	52	38	38	52	52	=		13	38		: :	2	1	2	38	2	5	52		9	38	9 6	5
SPC	970	20	20	50	02	20	20	50	50	•		0,	9	2	30	20	20	30	30	30	20		10	90	30		ה ה	30	0	90	9	0	0	9	06	50	05	0
	X51-10	N 674 KZ-11 DO YOU PERFORM TASKS ON URIVERS (INTERMEDIATE	KZ-12 DO TOU PERFORM TASKS ON	PERFORM TASKS ON	KZ-14 DO YOU PERFORM TASKS ON FRE	K2-15 DO YOU PERFORM TASKS ON IF	KE-IS DO TOU PERFORM TASKS ON	* *82 KZ-17 DO YOU PERFORM TASKS ON FREQUENCY DISCRIMINATORS	A SHE RE-IN DO TOU THACE SIGNALS ON CUNRENT PATHS THROUGH	SCHEMATIC DIAGRAMS OF FRITANSMITTERS		A 685 KJ-DI DO TOU CONVERT DECIMAL (BASE 10) NUMBERS TO OCTAL	(SASE 8) NUMBERS	0	00		A3-05 DO YOU CONVEHT BINARY NUMBERS TO DECIM	R3-U6 DO TOU CONVERT BINARY NUMBERS TO	KJ-U7 DO YOU ADD BINARY NUMBERS TO GET A SUM	A 642 K3-08 DO TOU SUBRRACT BINARY NUMBERS USING THE END-AROUND-	TOURS OF THE SKIPP OF THE PARTY NAMED IN THE PARTY OF THE PARTY IN THE	SUBTRACTION METHOD	K 694 KJ-10 DO YOU ADD OCTAL NUMBERS TO GET A SUM	L 695 LI-DI IN TOUR PRESENT JOB. DO YOU PERFORM ANY TASKS	RELATING TO LOGIC FUNCTIONS L 694 LI-UZ DO YOU CONSTRUCT TRUTH TABLES FOR AND LOGIC SYMBOLS		ל מין ליין מין מין למין ואמני ואמני אינו אינו אינו אינו אינו אינו אינו אי	L 698 LI-UM DO TOU CONSTRUCT TRUTH TABLES FOR AND OR OR LOGIC	STABOLS OR GATES	L 700 LI-US DO YOU USE OF REFER TO TRUTH TABLES FOR AND LOGIC		SYMBOLS ON GATES	KEFEH	LOGIC STRBOLS WITH STATE INDICATORS	LOGIC SYMBOLS	TOY LI-10 DO YOU USE ON REFER TO LOGIC SYMBOLS FOR	OR REFER TO LOGIC STHBOLS FOR ON GATE	GATES

PCT HERS RESPONDING TEST BY SELECTED GHPS

GPSUMZ PAGE 20

PERCENT MEMBENS PERFORMING

			DIVILLATION ROLL OF	SOULEAN EQUALIONS																							
5 PC 031	0.5	20	33		0	O	20	0	0	3.5	0	20	11	-	50	9	20	20	5.0	5.0	20	33	33	20	33	33	
5 P.C 0 2 9	0	0	0		0	0	0	0	0	0	0	0	0	٥	0	0	0	2	0	0	0	0	0	0	0	0	0
290	100	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
250	8	=	52		0	0	38	0	0	52	0	*	13	13	3.8	38	38	38	38	38	38	52	25	38	52	2.5	2
580	90	30	20		0	C	30	0	0	20	C	30	10	10	30	0.	30	30	30	30	30	20	50	30	0.2	50	10
07-15K	L 707 LI-13 DO YOU USE OR REFER TO LUGIC STHBOLS FOR EXCLUSIVE	L 708 LZ-01 IN YOUR PRESENT JOB. DO TOU PERFORM ANY TASKS MELL TIME TO HOOLEAN ENUATIONS. LOGIC DIAGNAMS. OR LOGIC		,	CALL CINCUITS	L 711 L2-04 DO YOU DRAW LOGIC DIAGNAMS FROM GIVEN BOOLEAN	L 712 LE-05 DO YOU MEASURE INPUTS OR OUTPUTS OF LOGIC GATES	BOULEA	L 714 L2-U7 DO YOU ANALYZE LOGIC CIRCUITS BY USING BOOLEAN	ALGEBRA ALGEBRA L 715 L2-38 DG YOU USE OR REFER TO LUGIC STMBOLS FOR DIRECT	OTH TABLES FOR	LOUIC (CML) CINCUITS 117 L2-10 JO YOU USE OR HEREM TO LOGIC DIAGNAMS CONSISTING	SUM AND CA	HALF OR FULL ADDER LOGIC DIAGHAMS L 719 L2-12 DO YOU TRACE DATA FLOW TAROUGH PARALLEL FULL ADDER	LOGIC DIAGRAMS L 720 L2-13 DO YOU WORK WITH ASTABLE (FREF HUNNING)	ATTH RISTABLE	722 LZ-15 DO YOU WORK MITH MONOSTAILE (ONE-SHOT)	L 723 L2-16 DO TOU USE OR PLEER TO FLIP-FLOP HULTIVIBRATOR	SYMBOLS L 724 LZ-17 DU TOU USE OR REFER TO SINGLE-SHOT MULTIVIRRATOR	STABOLS 12-14 DO YOU USE ON REFER TO FILE-FLOP CIRCUIT DIAGRAMS	726 12-19 DO YOU USE	L 727 L2-20 DO YOU USE OR REFER TO COMPLEMENTED FLIP-FLOP	L 72 M LOGIC STRBOLS L 72 M LOGIC STRBOLS OF MEFER TO COMPLEMENTING FLIP-FLOP LOGIC	L 729 12-22 DO TOU HEASURE DUTPUT AATSHAPES OF LOGIC CIRCUITS	L 730 L4-23 DG TOU TRACE DATA FLOW THROUGH COMPLEMENTED FLIP-FLOW	L 731 L2-24 GO YOU FRACE DATA FLOW TAROUGH COMPLEMENTING FLIP-	L 732 12-25 DO TOU COUSTRUCT TRUTH TABLES FOR U-K FLIP-FLOP LOGIC STHEOLS

PCI YEMS RESPONDING . TES. BY SELECTED GRPS

GPSUMZ PAGE 27

TASK GROUP SUMMANY PENCENTING

		COUNTERS																																			TIMING CIRCUITS		
5PC 031	83	20	20	20	20	0	8	33	20	20	33	:	13		8 3	c		20		0.5	9	20	33		33		33		33	0	,	0	1.1		8.0	2 2	2	33	
5 P.C	100	0	0	100	0	<b>o</b>	2	100	0	0	0		0		0	0		100		0	000	100	0		0		0		100	0	:	0	0		0	<b>o</b> c	,	100	
SPC 028	5.0	100	100	001	20	20	001	20	20	90	0	•	0		0	0		0		0	c	0	0		0		0		0	0		0	0		05	0 0	0	0	
5PC 027	75	38	38	20	38	0 :	•	98	38	38	52	,	57		•	0		9.0		38	3	00	25		5.2		52		38	0	•	0	-		38	2.0	:	38	
5 PC	70	50	9.0	0.0	0	0	10	9	0.	40	50		07		20	C	,	0+		30	3	0	50		20		20		30	0		0	10		0.	2 1	2	30	
451-YG	733 L3-UL DO YOU WITH DIGITAL COUNTERS IN YOUR PRESENT JOB	DO YOU USE OR REFER TO UP-COUNTERS	735 L3-U3 DO YOU USE OR HEFER TO DOM	13-04 00 YOU USE OR HEFER TO	737 13-05 DO TOU USE OR MEFER TO PAR	138 13-06 00 TOU USE ON KEFER TO RIN	13-U7 DO TOU USE ON MEFER TO DEC	140 13-08 DO 100 USE ON REFER TO COU	13-09 00 YOU USE ON REFER TO DON	742 13-10 00 YOU USE OR REFER TO UP	743 13-11 DO YOU THACE DATA FLUM THRE	OF-COUNTERS HAVING COMPLEMENTED FLIPFLOPS	L 744 L3-12 DO TOU TRACE DATA FLOW THHOUGH LOGIC DIAGRANS OF SENIAL UP- OR DOWN-COUNTERS HAVING COMPLEMENTING FLIP-	FLOPS	L 745 13-13 DO YOU TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF	DECADE COUNTERS	RING COUNTERS	L 747 L3-15 DO TOU TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF	SERIAL UP-COUNTERS FEEDING A PA	L 748 L3-16 DO TOU TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF	SHIFT REGISTERS	CAR LATT DO TO TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF	L 750 LA-18 DO YOU COMPUTE THE BINARY COUNT AFTER SPECIFIC INPUT	PULSES FOR UP-COUNTERS MAVING COMPLEMENTED FLIP-FLO	L 751 L3-14 DO TOU COMPUTE THE BINARY COUNTERS AFTER SPECIFIC INPUT PULKES FOR SERIAL UP: OR DOWN-COUNTERS MAYING COMPLEMENT:	ING FLIP-FLOPS	L 757 L3-20 DO YOU COMPUTE THE BINARY COUNT AFTEH SPECIFIC INPUT	PULSES FOR SERIAL UP-COUNTERS FEEDING A PARALLEL STORAGE	L 753 L3-21 DO YOU COMPUTE THE BINARY COUNT AFTEN SPECIFIC INPUT	PULSES FOR STHER TYPES OF COUNTERS	DECADE COUNTERS	COUNTERS FOR SPECIAL THE STATE OF EACH FLIP-FLOP IN KING	L 756 L3-24 DO YOU DETERMINE THE APPROPRIATE AND GATE NECESSARY	IN COUNT DETECT CIRCUITS TO INDICATE A REGUINE	757 HI-DI DO TOU WORK WITH SANTOOTH	TOTAL	FEEDBACK	H 260 MI-04 DO YOU WORK WITH PULSED OSCILLATORS WITHOUT	MEGENERALIVE FEEDBACK

PCT MENS MESPONDING TEST OF SELECTED GRPS

GPSUMZ PAGE 28

TASK GHOUP SUMMANY PLACENT MEMBERS PENFORMING

										USE OF SIGNAL GENERATORS											MOTORS AND GENERATORS											
950	11	20	20	11		33	5	2	001	001	000	001		100	:	; ;	200	001			6.7	001	100	67	100	6.1	33	19	33	93	2 :	- 6
200	000		100	100	001	100	0		100		0			000		000	0	c		c	00	0	3	0	0	0	0	0	0	٥	0 :	00
200	0 0	0	20	20	0	0		,	100	100	100	001		0001		0 0	20	100		100	000	100	100	0	20	0	0	0	0	0	0 :	0 0
50C	50	38	05	52	35	38	9	2	80 80 80 80	7.5	75	75		6 6		0 7	3.6	1		7	200	7.5	7,5	20	15	50	52	20	5.2	63	- 3	7
240	0.5	30	20	30	20	30	3	2	06	0 2	ď		,	30	,	2 6	0	e a		3.0		90	90	0,	70	0,	50	0+	5.0	20	0 :	0
DY-15K	H 261 HI-05 DO YOU WORN WITH BLOCKING OSCILLATORS	763 41-07 00 TOU USE OR REFER TO F	AI-OH DO YOU USE OR MEFER TO SA	165 m	MANEFORMS IN THE TO PHYSICAL LENGTH OF SANTOOTH	MAVEFORMS  * 767 MI=11 DO YOU USE ON REFER TO LINEAM SLOPE OF SAMTOOTH	MAVEFORMS	WAVE ON SE OF THE POST	H 789 HZ-UI DO YOU DEE SIGNAL GENERATORS IN YOUR PRESENT JOB H 770 HZ-UZ DO YOU PERFORM OPERATIONAL CHECKS WHILE USING SIGNAL	GENERATORS  M 771 M2-U3 DO TOU PERFORM PENTODIC MAINTENANCE SUCH AS  ALLINGTING ALLINGTON STORY		TATA 42-US DO TOU TROUBLE SHOOT TO THE		174 MZ-US DO TOU USE AUDIO SINE-MAVE GENERATORS SUCH	AS SHUAME MAVE,	AZ-09 DO YOU USE BE SENERATURE	#2-10 00 TOU USE OTHER SPECIAL	SENEMATORS SENEMATORS NOT TO PERFORM ANY TASKS DEALING	MITH ALTERNATING CURRENT OR DI	TOTAL TARGET TOTAL	791 43-03 00 700	742 -3-64 UO TOU OPERATE MOTORS	743 -3-05 DO TOU HEMOVE ON HEPLACE	13-06 DO TOU REYOVE OR REPLACE HOTOR PARTS	785 -3-07 00 700	The ward of You Thought Shoot gown to component Pants of Motors	43-09 DO YOU PERFORM ANY TASKS ON	789 43-10 DO YOU PERFORM ANY TASKS ON	184 HI-11 DO TOU PERFORM ANY TASKS ON	190 HI-12 DO YOU PEHFORM ANY TASKS ON	797 44-14 DO TOU PERFORM ANY TASKS	HILLS DO TOU PERFORM ANY TASKS ON

PERCENT REMERS PERFORMING

																				METER MOVEMENTS										SATURABLE REACTORS AND MAGNETIC	AMPLIFIERS						
256	9	1.9		0	83			2 3	2.			17	11	1)	0		001	50		00	50	83	2	001	55		,	0	0		,	0			0	0	
296	0	0		0	0		<b>)</b>	<b>)</b> (	, ,	9 0	0 0	0 0	0	2	0		0	0	c	•	0	0	0	<b>o</b> :	<b>5</b> c	0 0	,	0	0		0	0	c	0	0	0	
286	0	0		0	0		•	0	000	200	200	90	0	20	0		100	20		•	0	001	0 !	001	<b>o</b> c	0 0	,	0	0		3	0	c	5	0	0	
SP.C 027	0	50		0	•	35		9 6			36	-	-		0		75	38	,	,	38	63			52	1 7	3	0	0		0	0	5	5	0	С	
250	0	2	:	0	20	20	9 9	2 5	000	2 0		2 2	10	20	0		08	0		2	30	70	0.7	0 6	0 0	2 0	3	0	0			0	c	2	0	0	
DY-15A	S	FORCE OF TORGUE CHEATED BY A 40TOR	MECHANICAL FORCE ON TOROUE CREATED BY A MOTOR	TOTAL DE COLON DE CANADA D	TALL THE TOTAL THE TRANSPORT OF THE TALL THE TAL	100 mg	700 13-21 00 401	A 13-21 BO 100	THE WASTER BO TOO HOME WITH SOME CONBINATION OF THE	000	And the state of t	804 H3-26 00	805 H3-27 DO YOU REMOVE OR REPLACE GENERATOR PARTS	106 #3-28 00 TOU TROUBLE SHOOT AS FA	2	GENERATORS		H HOS NI-UZ DO YOU CONCEPTUALIZE OR CONSIDER THE FUNCTIONS OF	PERHANENT MAGNETS	יייי כי היייי היייי הייייי הייייי הייייי היייייי	N MIL NI-UM DO TOU CONCEPTUALIZE OF CONSIDER THE FUNCTIONS OF	MIS MI-US DO TOU READ METER SCALES	90-IN 618		A STATE OF THE PROPERTY OF THE PARTY OF THE	ATT ATT OF THE TOTAL OF PERSON TO VOIT	CEXPRESSED IN UNITS OF CHMS PER	N 818 NZ-01 DG TOU WORK WITH SATURABLE REACTORS ON MAGNETIC	A BIS NZ-02 DO YOUR PRESENT JOS	1	PERCHASIA	N 021 N2-U4 DO YOU ADJUST MAGNETIC AMPLIFIEMS OR SATURABLE	MEACTORS		N N23 N2-06 DO TOU MEHOVE OF REPLACE MAGNETIC AMPLIFIERS OF	SATURABLE MEACTORS N M24 112-01 DO YOU REMOYE OR REPLACE MAGNETIC AMPLIFIER OR	SATURBBLE MEACTOR COMPONENTS

PCT MARS RESPONDENC TEST BY SELECTED GRPS

UPSUMZ PAGE 30

PERCENT MEMBERS PERFORMING

								UAVECUA DIME	MAYESMAPING CIRCUITS								SINGLE SIDEBAND SYSTEMS			
SPC	20	5	0	o 0	O	0 0	10		5.0	19	6 6	2	20	0	0	0 0	0 0	0	Э	0
5 P.C	00	0	0	0 0	0	0 0	001	001	001	0	001	3	001	b	0	0 0	00	0	0	0
950	00	0	0	0 0	0	0 0	20	200	200	0	00	0	50	0	0	00	00	0	0	0
SPC 027	00	0	0	0 0	0	0 0	63	25	50	20	200	0	50	0	0	00	00	0	Э	0
280	ಎ೦	0	0	0 0	C	0 0	0.00	70	50	0,	200	Ω	50	C	c	00	0 0	0	0	o
07-75A	N M2S NZ-UE DO TOU USE ON REFER TO MYSTERESIS CURVES OR LOOPS N M2S NZ-UP DO TOU INTERPRET SCHEMATIC ORANINGS TO DEVELOP DUTPUT WAVEFORMS ACROSS REACTOR MINDINGS ON LOAD RESISTORS OF	A 827 RETUDE TO TOU HEASURE OUTPUT HAVEFORMS ACROSS REACTOR	REACTORS 12-11 DO TOU INTERPRET SCHEMATIC DRAW! MAVEFORMS FOR MAGNETIC AMPLIFIERS	" " " " " " " " " " " " " " " " " " "	SATURABLE REACTORS IN MINATON TOU USE ON REFER TO FLUX DENSITY IN SATURABLE REACTORS	N 832 N2=15 DO YOU USE OR MEFER TO PUINT OF SATURATION IN SATURABLE PLACTORS N N33 N2=16 DO YOU USE ON REFER TO SATURABLE MEACTOR SCHEMATIC SYMBOLS	A 034 43-01 DO YOU BORK MITH MAVESHAPING CIRCUITS IN YOUR PRESENT JOB JOB 3. 035 N3-02 DO YOU USE OR MEER TO TRANSIENT INTERVALS	436 43-03 00 YOU USE OR REFER TO PULSE	A MIN AIR AIR OF TOU USE ON REFER TO PULSE RECORRENCE THE IPRIT	HIS NI-UE DO YOU USE OR REFER TO	N 841 N3-08 DO YOU USE ON REFER TO THE CLASSIFICATION OF TIME	37.	ARD GUTTOT CONFIGURATION TO BE WITH SQUARE TAVE GENERATORS TO BE WITH STOTANCE AND STANDS OF SERVICES	545 01-01 DO TOU MOPK ON SINGLE SIDEBAN	DI-UZ DO YUU INSPECT SSU TRANSFIT OR RECEIV	C 047 01-03 00 TOU CLEAN SSE TAANSHIT OR RECEIVE SYSTEMS C 048 01-04 00 TOU ALTEN SSE TAANSHIT OR RECEIVE SYSTEMS	849 61-05 DO TOU TROUBLE SHOOT TO SSB THANSHIT O	O 1511 01-06 DO YOU TROUBLESHOOT TO 558 THANSHIT OF PLCEIVE	U #51 01-07 DO TOU PENOVE OR HEPLACE SSB TRANSHIT OR HECEIVE	D MS2 DI-08 DO TOU RE-OVE OR REPLACE SSB THANSMIT OR RECEIVE COMPONENTS

PET MEN'S RESPONDENCE TEST STEELECTED GRPS

SHOSAN

PERCENT MEMBERS PEMPORNING

0000000000000000 0000 0 0 10111 000000000000000 0000 0 0 1 00 00000 001 000 001 100 100 000000000000000 0000 0 0 20 00 0 200 0 0 0 000 000000000000000 0000 0 0 0 25 25 25 25 25 25 25 25 25 --7 200 0000000000000000 0200 0 0 0 30 30 20 0 10 **558** SSB DON'T PEMEMBER MHICH SSB MORK ON PULSE-CODE MODULATION (PCM) SYSTEMS MURK ON LINE PULSING MODULATION SYSTEMS MORK ON DON'T REMEMBER WHICH TYPE OF H FREQUENCY CONVERTERS
IF AMPLIFIERS
B DEMODULATORS HAS DIES DO YOU TRACE SIGNALS ON CURRENT PATHS THROUGH SSATING DIAGRAMS
THANSMITTER SCHEMATIC DIAGRAMS
THANSMITTER SCHEMATIC DIAGRAMS
HECELOO YOU TRACE SIGNALS ON CURRENT PATHS THROUGH SSA
HECELOO YOU GOR ON PULSE HODOLATION SYSTEMS IN YOUR CCHPUNENTS 02-07 DO TOU REMOVE OR REPLACE PULSE MODULATION SYSTEMS 02-08 DG TOU REMOVE OR REPLACE PULSE MODULATION SYSTEM TOO INSPECT PULSE MODULATION SYSTEMS
TOU CLEAN PULSE MODULATION SYSTEMS
TOU ALIGN PULSE MODULATION SYSTEMS
TOU ALIGN PULSE MODULATION SYSTEMS
TOU TROUBLESHOOT TO PULSE MODULATION SYSTEMS AUDIO AMPLIFIEKS BALANCED MODULATORS CAPRIER OSCILLATORS S LC FILTERS
9 CHYSTAL FILTERS
8 MECHANICAL FILTERS
8 OSCILLATORS MOPK ON PULSE-AMPLITUDE MODULATION (PAM) ON PULSE-POSITION MODULATION (PPH) 684 02-10 DO YOU MORK ON PULSE-BUNATION MODULATION IPOHI PONER AMPLIFIERS SHIVERS HIXERS HODULATION SYSTEM # ORK SYSTEM STAGES THANSHITTERS 05-09 00 40-20 400 100 100 874 02-02 DO 00 STSTEMS SYSTEMS SYSTEMS 02-05 02-03 474 02-04 2 0 0 0 0 . 8 . 80 0 0 000

PULSE MODULATION SYSTEMS

GPSUMZ PAGE 32

TASK GHOUP SUMMANT PERCENT HEMBERS PENENG

SPC SPC SPC SPC SPC 026 027 031	0 001 0 11 01	0 000 0 01	0 001 0 11 01	10 13 0 100 0	0 0 0	0 001 0 61 01	10 13 0 100 0	0 001 0 10 0	10 13 0 100 0	10 13 0 100 0	10 13 0 100 0	10 13 0 100 0	0 000 0 100 0	0 0 00 01	20 25 0 100 17	25 0	30 25 50 100 17	25 50 100	25 50 100	00 00 61	0 0	30 25 50 100 17	30 25 50 100 17	40 38 50 100 33
0Y-15A	0 889 02-15 DO YOU PEFFORM TASKS ON PULSE HODULATION SYSTEM	)	TOU PERFORM 145KS ON	U 892 02-18 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM		U 694 UZ-20 DO PERFORM TASKS ON PULSE HODULATION STSTEM	200	C 896 02-22 DO YOU PERFORM TASKS ON PULSE HODULATION SYSTEM RE	U #97 02-23 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM	D 698 DE TOUR TASKS ON PULSE HODULATION SYSTEM	D HAS DE TOU PERFORM TASKS ON PULSE MODULATION SYSTEM	U SOU 02-26 DO TOU PERFORM TASKS ON PULSE HODULATION SYSTEM	100		D 903 02-25 DD 700 USE OR MEREN TO PULSE RECURMENCE FREUENCY	404 02-30 00 YOU USE OR MEREN TO PULSE	O YOS GENERAL DO YOU USE ON MEREN TO PULSE MIDTH (PR.)	02-33 00 YOU USE OF PEFER TO PEAK P	40 35 OH	PECUMENCE FESCENCY (PHF)	00 TOU		O 913 02-39 DO VOU TRACE SCHEMATIC DIAGRAMS  O 913 02-39 DO VOU TRACE SIGNATES OR CUMPENT PATHS THROUGH PULSE  HOUPULATION MECETYER SCHEMATIC DIAGRAMS	U 919 03-01 00 100 more mith antennas in your present Joh U 915 03-02 00 Tou INSPECT ANTENNAS

PCT MERS RESPONDENCE TEST BY SELECTED GRPS

GPOURZ PAGE 33

TASK GROUP SUMMANY PERCINT MEMBERS PELFORMING

5PC 5PC 5PC 5PC 5PC 026 027 028 029 031	001 05	38 50 10	0 0 0	0 0 0 0	0 0 0 0 0	0 0 0 0	0 0 0 0	0 0 0	0	000		0 0 0 0			0 0 0 0	0 0	0 0 0 0 0	0 0 0 0	0 13 0 100 0	0 0 0	0 0 0 0	0 0 0
DY-T3K	TOU CLEAN ANTENNATOU PHYSICALLY AL	920	922 03-09 00 YOU REHOVE 923 03-10 00 YOU USE ON	REPRESENTATIONS OF E OR ELECTRIC FILLD LINES U 524 03-11 DO 705 USE OR REFER TO TECHNICAL DATA CONTAINING MEPRESENTATIONS OF HOR MAGNETIC FIELD LINES	103-12 DO 700 DETERMI	O 926 03-13 DO TOU USE OR REFER TO THE GENERAL RULE THAT AMTENNAS "MICH ARE OF CORRECT LENGTH (HALF-WAVE) ACT AS INDUCTIVE LOADS TO THE GENERATOR	THAN A	U YZR 03-15 DO TOU USE OR REFER TO THE GENERAL RULE THAT ANTENNAS WHICH ARE SHORTER THAN A HALF-WAVE ACT AS CAPACITIVE LOADS TO THE GENERATOR	929 03-16 DO YOU HORK WITH	930 03=17 00 100 more milh	932 03-19 00	03-20 00 YOU #ORK	935	136	U 937 03-24 DO TOU USE OR REFER TO THE TERM ELECTROMAGNETIC	0 938 03-25 DG TOU MEASURE ELECTROMAGNETIC RADIATION	O 939 03-26 DO TOU USE OR REFER TO THE TIME PHASE OF ELECTRIC (E) AND MAGNETIC (H) COMPONENTS IN ANTENNA RADIATION	O 440 03-27 DO TOU USE OR REFER TO THE TIME PHASE OF ELECTRIC (E) AND MACHETIC (H) COMPONENTS IN ANTENNA INDUCTION FIELD	C 74! 03-24 ARE ANY OF THE ANTENNAS TOU WORK ON LINEARLY	0 942 03-29 ARE ANT OF THE ANTENNAS YOU MORK ON CIRCULARLY POLARIZED	0 943 03-30 DO TOU MEASURE OR DETERMINE THE POLARITY OF ANTENNAS	55AR

LECTED GAPS	
4 ** FS . BY SE	LYFORMING
PCT ALRS RESPONDING "TES" BY SELECTED GHPS	TASK GHOUP SUMBANY

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										TRANSMISSION LINES																			
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DY-15K	INE ANTENNA		O *47 33-34 DO THE ANTENNA ARRAYS YOU MORK WITH CONTAIN PARASITIC	ELEMENTS SERV	MENERGER WHAT KIND OF ELENENTS	YOU .	1 03-37 DO TOU -OFK ON	951 03-34 00 YOU WORK	07-30 00 100 0	LINES ITRADATESEN JOB DO TOU WORK MITH TRANSPISSION LINES ENTRANSPISSION LINES ARE DEFINED TO INCLUDE LEADS BETWEEN MELLIVERS AND ANTENNAS, TELEPHONE LEADS, AS WELL AS HIGH VOLTAGE POWER LINES, ETC. SO NOT CONSIDER	MANEGUIDES AS TRANSMISSION LINES P 354 P1-02 NO TCU REFER TO OR USE COPPER LOSS OF 12R LOSS IN	THANSHISSION LINES POSE SKIN EFFECTS OF HIGH FREQUENCY	LLI	PI-05 DO YOU USE OR REFER TO	THANSMISSION LINES	LINES	11 1 10 10 10 10 10 10 10 10 10 10 10 10	961 PI-09 DO TOU MORE MITH	962 PI-10 00 TOU -OHK -ITH	LINES POSTUL TO TOU MONK MITH PIGID COAXIAL CABLE TRANSMISSION	LINES	P 965 PI-13 DO TOU ANALYZE VOLTAGE ON CURRENT WAVEFOURS IN TRANSFISSION I INFS. TO DETAMINE THE TYPE OF TERMINATION	COPEN, SHORTED, CAP	TARK PILIT DO TOU SELECT APPROPRIAT, TRANSHISSION LINES	35	P 96R PI-16 DO TOU MEASURE STANDING ANE NATIOS (SR) OF	TARNSHISSION LINES FRANSHISSION LINES FRANSHISSION CALCULATE STANDING MAYE RATIOS (SMR) OF	TRANSHISSION	P 470 PI-18 DO TOU PENFORM THE CALCULATIONS NECESSARY TO DETEMBLY THE IMPEDANCE AND LENGTH OF QUANTER - WAVELLNGTH MATCHING THANSFORMERS TO HATCH TRANSMISSION LINES TO LOADS

ECT HaMS MESPONDING TTST BY SELECTED GMPS

CPSUMZ PAGE 35

TASK GROUP SUMMANY PERSONANG

																		WAVEGUIDES AND CAVITY RESONATORS												
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5 P C	0	0	0	0	0	0	0	0	0	0		0	0.0		0	0	0	0 0	o c	0	0	0	<b>o</b> c	0	0	0	0	0 (	<b>5</b> 0	00
5 P C	:	13	0	13	0	0	0	0	0	0		0	0 0		0	0	0	0 0	0 0	0	0	0	0 0	0	0	0	0	0 0	0 0	0
5 PC 0 2 8	10	10	c	10	0	o	0	0	0	0		0	00	9	0	0	0	0 0	0 0	0	0	0	<b>o</b> c	0	0	0	0	0 1	0 0	0
D1-15K	P 471 PI-19 DO TOU BORK BITH THANSHISSION LINES WHICH ARE HATCHED	TO COME TO THE MATCHING HANSHOWN LINES WHICH ARE MATCHED	Z	FOR PARTICULAN JOBS WITHOUT REFERRING TO TECHNICAL DATA P 974 P1-22 DO YOU USE OR REFER TO THE TERM CHARACTENISTIC	IMPEDANCE (20) OF THANSMISSION LINES P 975 P1-23 DO YOU CALCULATE THE CHANACTERISTIC IMPEDANCE (20) OF	P 976 PI-24 DO YOU USE OR MEFER TO THE TERM CUTOFF FMEQUENCY OF		OF THANSHISSION LINES F 978 PI-24 DO TOU COMPUTE THE ELECTHICAL LENGTH OF TRANSMISSION	ZX	FLECTWICAL LENGTH FOR GIVEN FREGUENCIES F 980 PI-28 DO YOU USE ON REFER TO THE GENERAL RULE THAT AS THE	PHYSICAL LEN	INCREASES INCREASES P 941 PI-29 DO YOU MORE MITH MONRESONANT (FLAT) TRANSMISSION	LINES PRES PRES TO THE MORE WITH RESONANT TRANSMISSION LINES PRES PRES TO THE MORE WITH RESONANT TRANSMISSION LINES	TO LOADS USING STUB MATCHIN	P WHY PZ-01 DO TOU MORK MITH MAVEGUIDES OR CAVITY RESONATORS IN	985 P	PZ-03 DO YOU CLEAN PAVEGUIDES	200	THE PERSON OF THE PRESCRIPTION AND THE PERSON OF THE PERSO	990 PZ-07 DO YOU PURGE AAVEGUIDES UR CAVITY	941 PZ-08 DO TOU TROUBLESHOOT MAVEGUIDES OR	THE FE-DO DO YOU REMOVE OR INSTALL	P 443 PZ-10 DO TOU REMOVE ON INSTALL MAYEGUIDE SECTIONS	495 P2-12 DO YOU REMOVE OR INSTALL	496 PZ-13 DO YOU REPOYE OR INSTALL	497 PZ-14 DO TOU REMOVE OF INSTALL OTHER	948 PZ-15 DO YOU REMOVE OF INSTALL	PZ-16 DO TOU REHOVE OR INSTALL	PICCO PE-17 CO TOU REMOVE ON INSTALL DIRECTIONAL COUPLERS	P4-19 00 700 USE OR REFER TO

PET HAMS RESPONDING TEST BY SELECTED GRPS

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TASK GROUP SUMMANY PLHCENT MEMBENS PERFORMING

SPC SPC SPC SPC SPC U26 027 031	REFER TO CUTOFF PREQUENCY OF WAVEGUIDES 0 0 0 0 0 0 0 REFER TO CUTOFF PREQUENCY OF WAVEGUIDES 0 0 0 0 0 0 0 REFER TO FREQUENCY-DETERMINING MALL OF 0 0 0 0 0	SHINING MALL OF U O O O O O	LELU BOUNDAMY	וברכ פסחייסאמן	IELD BOUNDAMY U O O O U	ZE OF -7 WAVELENGTHS 0 0 0 0 0	IN SIZE . WITH .35	AL (SUCH AS BRASS) D U U O U	FEGULDE FOR SPECIFIC U O O O O	DETERMINE THE 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1455 OF PEAK "E" OR O O O O	*E* ON "H* LINES IN 0 0 0 0 0	TUAL HATURE OF "E" OR U D U D D	EQUIDES OR CAVITY 0 0 0 0 0	CUIDES OF CAVITY U D O O U	AVITY RESONATORS 0 0 0 U	USED ON MAVEGUIDES 0 0 0 0 0 0	ENERGY COUPLING USED IN 9 B G B	T REFERENCE TO	OF LOOPS IN G G G G G
01-15K	USE 04	FIDDS P2-23 DO YOU USE OR REFER TO PONEN-DETERMINING MALL OF	PILOT PZ-Z4 DO YOU USE ON HEFER TO ELECTRIC FIELD BOUNDANY	CONDITIONS PILLS PARTIC FIELD BOUNDARY	FIGURE PARTY OF THE PERENT O DUPLEMER FIELD BOUNDARY	FIUTO PZ-Z7 DO YOU USE OF REFER TO THE GENERAL RULE THAT HOST WAVEGUIDES ARE HADE WITH A "8" WALL SIZE OF "7 WAVELENGTHS	OF THE OPENATING FREQUENCY FIUL P2-28 DU TOU USE OR MEREN TO THE GENERAL HULE THAT MOST MALLS MANGE FROM .2 TO .5 MAYELENGTHS IN SIZE, WITH .35	PILLLY PE-29 ARE TOU CONCERNED WITH THE MATERIAL (SUCH AS BRASS)	PIUL P.Z.30 DO TOU COMPUTE THE LENGTH OF A MAVEGUIDE FOR SPECIFIC	PILLY PZ-SIDO TOU USE THE RIGHT HAND HULE TO DETERMINE THE UIRCTION OF PERPENSION, DIRECTION OF PER FIELD, OR	DINECTION OF THE FIELD IN MAYGUIDES	FILLS P2-33 DO YOU MEASURE THE TIME PHASE OF PER ON "HE LINES	PILIT PATEGUIDES	FILLIN P2-35 AME HIGH POWER PROBES USED ON MAVEGUIDES OR	PISTS PZ-36 AME LOW POMEN FROMES USED ON MAVEGUIDES OR CAVITY		FOU WORK WITH PLUZE PERTURES (WINDOWS ON IRISES) USED ON MAVEGUIDES	THE SOLVE TO THE SOLVE TO THE RING OF ENERGY COUPL FILLS FOR THE RING OF ENERGY COUPLING OF CHITTE RECOMMENDER TO WORK WITH	+ 1 123 +24-40 DG YOU DE TERMINE HERE POORES SHOULD BE HOUNTED	TECHNICAL DATA TECHNICAL DATA TICS PZ-41 DO TOU DETERMINE THE POSITIONING OF LOOPS IN ANYEQUIDES ON CAVITY RESOLATORS MITHOUT REFERRING

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TASK GHOUP SUMMANY

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PIUZS PZ-42 DO TOU DETENHINE THE PUSITIONING ON SIZE OF APERTURES IN MANEGULUES OR CAVITY RESONATORS MITHOUT REFERRING TO	0	0	0	9	
PIUZA PZ-43 ARE CHOKE JOINTS USED IN MAVEGUIDES ON CAVITY	2	0	0 0	0	
PIUZY PZ-44 BRE NUTATING JOINTS USED IN MAVEGUIDES ON CAVITY	5	0	0 0	9	
PICZN PZ-45 ARE DON'T REMINER TAK KIND OF JOINTS USED IN	0	0	0	0	
MAYEGUIDES OR CAVITY HESONATORS YOU WORK					
P2-46 DO TOU TUNE CAVITY RESONATORS USING	0	0		0	
P2-47 00 YOU TUNE CAVITY	0	0		0	
PA-48 DO TOU TUNE CAVITY RESONATORS USING	0	0	0	0	
FIGURE PERMOD DE TOUT TONE CAVITY RESONATORS USING DON'T MEMBER	c	0		•	
U MEASURE	0	0	0 0	0	
RESONATORS					
(TWT), PAKAMETRI	0	,		,	
U USE OR REFER TO	0	0		0	MICROWAVE AMPLIFIERS AND
OR MEFER TO	0	0		0	USCILLATURS
USE OR REFER TO	0	0	0 0	0	
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CIRCULTRY PINTS PAGE OF WEERS TO DESINCIPLE OF STREETSON VELOCITY	0	c	0	c	
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FIGURO P3-07 DO YOU USE OR HEFER TO ELECTRON BUNCAING	0	0		0	
UO TUU 40KK #1	0	0		0	
P3-09 DO YOU "ORK "ITH	0	0		0	
P3-10 DO YOU WORK #1TH	0	0		0	
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PJ-16 00 100 CLEAN K	0	0		0	
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TOU TUNE AL	0	0		0	
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PA-KI OU YOU KENDY	. =	. 0			
P3-22 00 100 HEHOVE	0			00	
P3-23 00 TOU INSPECT PANAMITHIC AMPLIFIEMS	0	c		0	
P3-2" 00 TOU CLEAN PA	0	0	0	. 0	
TOU ADJUST	0	0		0	

PASK GROUP SURMAN PERFORMING

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X51-10	PIUSS P3-26 DO TOU TOUE PAHAMETRIC AMPLIFIERS PIOSO P3-27 DO TOU PEHFORM OPERATIONAL CHECKS OF PAPAMETPIC	PIDES P3-28 DO TOU THOUBLESHOOT PANAMETRIC AMPLIFIENS PIDES P3-29 DO TOU REMOVE ON REPLACE COMPLETE PANAMETRIC	AMPLIFIER PIUNS PS-SO DO TOU NETOVE OR REPLACE PARAMETRIC AMPLIFIER	P3-31 00 TUU INSPEC	PLOSS PAINS OF THE ACCRETAINS	P3-3+ 00 100	PIUGA P3-35 DO TOU PERFORM OPERATIONAL CHECKS OF MAGNETRONS	P3-37 DO 700	P3-36 DO TOU PEMOVE OR REPLACE HAGNETRON	2	TING PRINCIPLES	THO-CAVITY KLYSTRONS CATCHER CAVITIES	TRONS CATCHER GRIDS	THO-CAVITY KLYSTRONS PLEDBACK LOOPS	PERATING PRINCIPLES	ERATING PHINCIPLES	TWO-CAVITY RETROES BUNCHER GRIDS	THO-CAVITY KLYSTRONS BUNCHER CAVITIES	TRU-CAVITY KLYSTRONS CONTROL OF USE STATES	Two-CAVITY KLYSTROWS CATHODES	FORENTING PRINCIPLES	ON REFER TO THE OPERATING PHINCIPLES	METER KLISTROM GPICS	PEPLER KLYSTROW GRID CAVITY GAPS	PICHA P3-51 DO TOU USE ON MEREN TO THE OPENATING PRINCIPLES OF MEREN ALTSTHON PRODUCT CAUTIES	OR HEFER TO THE OPERATING PHINCIPLES	MAGNETIC COUPLING LOOPS OR REFER TO THE OPENATING PHINCIPLES	MEFLEX KLYSTHOM FILAMENTS

PLI HANS RESPONDING TEST BY SELECTED GMPS

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PERCENT MEMBERS PERFORMING

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07-75		PRICHE PASSAGE OF THE OPERATING PRINCIPLES OF	PRINGLE PASS DO YOU USE ON REFER TO THE OPERATING PRINCIPLES OF	THAVELING-MAVE TUBES CATHODES PRINCIPLES OF THE UPERATING PRINCIPLES OF	THAVELING-WAVE TUBES MODULATON GRIDS FILMS P3-59 DO TOU USE ON REFER TO THE OPENATING PRINCIPLES OF	THAVELING-MAYE TUBES ANDDES THE OPENATING PRINCIPLES OF	THAVELING-MAVE TUBES HELIXES PILURY P3-61 DO TOU USE OR HEFFN TO THE OPENATING PRINCIPLES OF	PILVS PILVS OF THE PRINCIPLES OF	PLUSE PALESTANT TORES MENTES	PILET PA-64 DO TOU PERFORM TASKS ON PARAMETRIC AMPLIFIER FERRITE	CIRCULATORS P3-65 DO TOU PERFORM TASKS ON PARAMETRIC AMPLIFIER SIGNAL	CAVITIES CAVITIES PLUGG F3-66 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER TOLER	LIDD P3-67 DO TOU PERFORM TASKS ON PARAMETRIC AMPLIFIEM VARACTON	DIDDES DIDDES DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER FERRITE	ISOLATONS PILOZ P3-69 DU TOU PERFORM TASKS ON PANAMETRIC AMPLIFIER REVERSE-	BIAS BATTERIES PILOS PS-70 DO YOU PERFORM TASKS ON ANODES	P3-71 DO YOU PERFORM TASKS ON	PJ-72 DO TOU PERFORM TASKS ON	PILOS PARAS DO TOU PENEDRA TASKS ON ALSONANT CAVITIES	P3-75 DO YOU PERFORM TASKS ON CATHODES	DO TOU PERFORM TASKS	GI-UI DO TOU USE ON REFER TO	ALLES GI-OZ DO TOU USE ON MEREN TO ENGLISHENS	REGISTERS	ALGISTERS	GILLY GI-US DO TOU THACE THE DATA FLOW THROUGH LOGIC DIAGNAMS OF

PCT HARS HESPONDING TEST BY SELECTED GRPS

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TASK GROUP SUMMANT PERCENT MEMBERS PENFONNING

				STORAGE DEVICES									DIGITAL TO ANALOG CONVERTERS														•					
980	2	20	33	1.1	0	20	33	20		3.3	11		11		-		:	2	11	1.7			11	0		1.1	:	-	11	1.1	1.1	
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200	20	100	20	0	0	100	0	0	,	00	100		20		0		0	)	0	0		2	0	0		0		0	0	0	0	
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5 PC	30	0.4	0	20	10	09	01	0,		30	50		0.7		2		200	2	70	99		0,	50	0		20	,	0,7	20	20	20	
0Y-15A	SHIT REGISTER AFTER SPECIFIED NUMBER OF SHIFT PULSES HAVE DARSED	41117 44-01 DO YOU ADRY WITH DIGITAL COUNTERS. REGISTERS, OR STORAGE DEVICES IN YOUR PURCENT JOB	YOU USE OR REFER TO DEL	42-03 DO TOU USE OR REFER TO MAGNETIC	02-U" DO TOU USE OR MEFER TO MAGNETIC	42-US DO YOU USE OR REIER TO MAGNETIC TAPES	MEMORY SYSTEMS	WILZS AZ-O7 DO YOU USE OR REFER TO WORD CAPACITY OF MEMORY	SYSTEMS	GILZS GZ-09 DO TOO USE OR REFER TO VOLATELITY OF REMORT STSTEMS	43-01 IN YOUR PRESENT JOB. DO YOU WORK WIT	CONTRICTS, OH PILLERY-TO-SCIAL MEDDOUT CONTRICTS	41127 93-02 DO YOU CO.PUTE OUTPUT VOLTAGES FOR ELECTHORECHANICAL	VOLTAGES	COURT OF COUNTY	CONVENTERS IS DETERMINED BY ADDING THE DENOMINATORS OF THE	HESTSTORYS TO TOWN TO MAKE A THOUSE SOR STATE OF THE MAKEN		ULISO JEOS DO YOU PERFORM SAMPLE FUNCTION TASKS ON VARIABLE TIME	ANALOG-TO-DIGITAL (AZD) CONVENTER CIRCUITS 41131 33-06 DO YOU PESFORN HOLD FUNCTION TASKS ON VANIABLE TIME		TIME ANALOGITO-DIGITAL (A/U) CONFERTER CINCULS	DO TOU PERFORM DIGITIZE .	TIME ANALOG TO PERFORM DON'T REMEMBER WHICH FUNCTION TASKS	BLE TIME ANALOG-TO-DIGITAL	CINCUITS CINCUITS ON MEFER TO SAMPLE FUNCTION OF A/D		CONVERTERS	11137 .3-12 DO TOU USE OR REFER TO COMPANE FUNCTION OF A/D	CONVENTERS CONVENTERS GII38 33-13 00 YOU USE ON HEFEN TO DIGITAL FUNCTION OF A/D	CONVEHTERS CONVEHTERS CITSO 3-14 DO TOU PEPFORM ANY TASKS ON MECHANICAL ANALOGITO-	DIGITAL 14/D) CONVENTERS

PCT HERS RESPONDING .TES. BY SELECTE, GMPS

CPSUMZ PAGE 41

TASK GROUP SURMANY PERC: NT MEMBERS PENFORMING

PHANTASTRONS				SCHMITT TRIGGERS		CABLE FABRICATION		INPUI/OUTPUT DEVICES		PHOTO SENSITIVE DEVICES	THAT STREET BETTER			SYNCHRONOUS VIBRATIONS	(CHOPPER CIRCUITS)								INFRARED							
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07-TSR	HILLS RI-GI DO YOU HOUR BITH PHANTASTHON CINCUITAY IN YOUR	HILL HE OUR PRESENT JOS OF YOU HORK WITH SCHMITT THIGGER	KINAZ KZ-02 DO YOU TRACE DATA FLOW THROUGH SCHMITT THIGGER	SCHEMATIC DIAGRAMS	Alles Ra-ol IN TOUR PRESENT JOR DO TOU FABRICATE MULTICONDUCTOR	RIINS HBAUZ DO YOU FAMILY CONTAL CANLES	STIME SI-UI IN TOUR PRESENT JOB DO TUU PERFORM ANY TASKS ON	VISUAL READOUT SYSTEMS SILVE SI-02 DO TOU PEPFORM ANT TASKS ON NIAIE LIGHTS OR NIXIE	LIGHT DECODER SYSTEMS SILMR SI-03 DO TOU ANALYZE NIXIE LIGHT DECODER SYSTEMS USING	SILES SAND DO TOU HORE BITH PHOTO TURES IN YOUR PRESENT JOH	S3-JI IN YOUR PRESENT JOB DO YOU WORK WITH CHOPPER	S3-02 00 TOU HEASURE EXCITATION FREQUE	SITAS SEADE DO TOU MEASURE VOLTAGE CURRENT PHASE RELATIONSHIPS	S3-05 DO YOU USE OR REFER TO VOLTAGE	RELATIONSHIPS	CIRCUIT OPERATION	CINCUIT OPENATION	SILST 53-08 DO TOU USE ERROR SIGNAL DEVICES IN CONJUNCTION WITH		11154 11-01 DOES YOUR PRESENT JOB INVOLVE ANY TASKS DEALING WITH	INFRARED SYSTEMS	TITOL THE BOOK OF CLEAR INFRARENCE SYSTEMS	11-04 00	11-05 00 YOU	TILLOW TI-DO DO TOU THOUGHESHOOT AIR CONNECTIONS OF INFRARED	STSTEMS STEMS 1116: 11-07 DO YOU THOUBLESHOOT MAJON ASSEMBLIES OF INFRARED	SYSTEMS TILGA TI-06 DO YOU THOUBLESHOOT DOWN TO INFRARED SYSTEM	COMPONENT PARTS	INFRANCO SYSTEMS	TIISS TI-10 DO YOU REMOVE ON HEPLACE INFHANED SYSTEM COMPONENT PANTS

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TASE GAUUP SURMANY

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PCT MBRS RESPONDING OTES. BY SELECTED GRPS

GP SUM PAGE 43

TASK GROUP SUMMANY PLHCFNT HENBENS PERFORMING

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07-75K	TIZIO 12-25 DO TOU MORK MITH HALF SILVERED (928 HEFLECTIVE)	TOU ONE	12-27 DO TOU MORK WITH RUBY	DO YOU SORK MITH	DO YOU WORK	12-30 DO TOU MORK	12-31 00 YOU "OFK	12-32 DO TUU MORK MITH	14-33 00 400	12-34 00 TOU BORR BITH GALLIUM AN	IN YOUR PRESENT JOB OF YOU	SUCH AS DINECT VIEW STORAGE (DVST) OR MULTIPLE MODE	STORAGE TUBES (MMST)	13-02 00 Tou	T3-03 DO TOU CLEAN DVST OR MMST	TA-04 00 YOU AUJUST OR CALIBRATE D	OPENATE SYSTEMS THAT		CINCUITS	TIAZE T3-07 DO YOU REMOVE OR REPLACE DVST OR MMST TUBES FROM	MAJOR ASSEMBLIES OF UNITS	TIEZZ T3-UB DO YOU PERFORM TASKS THAT MAKE IT NECESSARY TO NAME	THE VARIOUS ELEMENTS OF DVST	TIZZA T3-09 DO TOU PERFORM TASKS THAT MAKE IT NECESSART TO NAME	ELEMENTS OF MMST	13-10 DU YOU PERFORM TASKS ON FLO	T3-11 DO TOU PERFORM TASKS ON ARI	T3-12 DO YOU PERFORM TASKS ON ATT	13-13 DO TOU PERFORM TASKS ON	DO TOU PERFORM TASKS ON STOR	3	ULESS UL-UZ DO YOU USE OR REFER TO DECIMAL SYSTEMS	20 4 0 4 10 4 0 4 10 4 10 40 10 10 10 10 10 10 10 10 10 10 10 10 10	JI-04 DO YOU USE OR REFER TO HEX!	DO TOU USE OR REFER TO 8-4-	U1-06 DO YOU UST OR REFER TO FOUR	SO TOU USE OR REFER TO BINAN	DO YOU USE ON REFER TO	UI-09 DO YOU USE OR REFER TO DATA	DO YOU USE OR HEFER TO	OI-II DO YOU USE OR REFER TO ADDR	UI-12 DO TOU USE ON MEFER TO STEE	11-13 00 TOU USE ON REFER TO 14FO	DO TOU PERFORM TASKS ON SIN	UIZYY II-15 DO TOU PERFORM TASKS ON MULTI-LEVEL PROGRAMING

PLT MENS MESPONDING TEST BY SELECTED GRPS	TASK GROUP SUMMANY	PERCENT NEMBERS PLANDERING

GPSUMZ PAGE 44

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07-75K	UIZ49 UI-16 DO TOU PERFORM TASKS ON THPUT DEVICES	ULZSO UI-17 DO TOU PERFORM TASKS ON STORAGE DEVICES	UIZSI UI-18 DO YOU PERFORM TASKS ON ARITHHETIC SECTIONS	UIASZ UI-19 DO TOU PERFORM TASKS ON CONTROL SECTIONS	DIZES UI-ZO DO YOU PERFORM TASKS ON GUTPUT DEVICES	U1254 U1-21 DO YOU PERFORM TASKS ON POWER SUPPLIES	UIZSS UZ-DI DO YOU USE DECIBELS TO EXPRESS AMPLIFICATION AND	ATTELUATION	UIZSS UZ-UZ DO YOU USE LCGARITHMS TO COMPUTE DUTPUT PORER IN	DECINELS	UIZST UZ-03 DO TOU USE LOGARITHMS TO COMPUTE ATTENUATION IN	DECIBELS	LIZES UZ-DY DUMMY TASK TO IDENTIFY INCUMBENTS WHO PENFORMED	NO TASKS

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This report summarizes the results of the administration of the Electronic Principles Inventory to airmen assigned as Airborne Meteorological/Atmospheric Research Equipment Repairman (AFSC 30251). The report gives a detailed listing of the technical tasks and knowledge needed to perform the jobs within the specialty or career ladder.

CONTINUED

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This specialty has the following functions:

Installs, maintains, and repairs meteorological and atmospheric research equipment and associated data processing analog and digital computers. Performs preventive maintenance on airborne meteorological and atmospheric research equipment. Installs airborne meteorological and atmospheric research equipment. Repairs airborne meteorological and atmospheric research equipment. Supervises airborne meteorological/atmospheric research equipment repair personnel.

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